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ASSAY KITS

FEBRUARY
2016

MEASURE WITH CONFIDENCE



As a direct assay kit manufacturer, we have a unique understanding of assay development and performance. With our assay kits, you will receive all necessary reagents, plates, instructions, and analysis tools to help you find answers quickly and efficiently. We understand that your research is being done with finite time and money, so we create and refine our kits to be affordable and to provide fast, accurate results. You have access to more than 350 assay kits in various formats, including ELISA, cell-based, TR-FRET, enzyme activity, inhibitor screening, high-throughput screening, and transfection. These kits are backed by a team of more than 100 in-house scientists, the same who develop our products and provide technical support, as well as state-of-the-art laboratories, a rigorous validation process, and a wealth of technical data.



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IMMUNOASSAYS TO MASS SPECTROMETRY: TRANSITIONING TECHNOLOGY

In 1987, there was a need for an easy-to-use, low-waste, and cost-effective technique for the detection and quantification of small bioactive molecules. Cayman Chemical responded to the research community by introducing one of the first commercially-available enzyme-linked immunosorbent assays (ELISAs) for prostaglandin E₂ as an alternative to the cumbersome radioimmunoassay. Almost 30 years later, Cayman continues to offer several ELISAs to researchers, constantly improving on the reliability and sensitivity of these assays.

It is known that antibody-based techniques are limited by the specificity of the antibodies involved, which remains a challenge for researchers quantifying small molecules and biomolecules such as eicosanoids, proteins, and peptides. Moreover, quantitation is limited to the antibody-specific

antigen(s), usually a single analyte. Researchers and clinicians alike are now turning to mass spectrometry (MS) as an alternative analytical technique because of its advantages over ELISA-based methods. MS offers an inherent specificity advantage as well as multiplexing capabilities, albeit with significant start-up costs. The value of rapidly quantifying multiple targets simultaneously with accuracy and certainty makes MS an increasingly popular method of choice.

Cayman is committed to leading efforts to develop MS-based approaches, as we have done with ELISAs, and offers a variety of highly pure standards for analysis by MS. Cayman's team of scientists is dedicated to both ELISA and MS analyses to provide researchers worldwide with the tools and expertise needed to make research possible.

ELISAs

Enzyme-linked immunosorbent assays (ELISAs), also known as enzyme immunoassays (EIAs), combine antibody binding with enzymatic detection to quantify molecules of interest. Cayman Chemical manufactures more than 130 easy-to-use ELISAs in both sandwich/immunometric and competitive formats. Each kit undergoes extensive testing and is backed by a team of in-house scientists committed to offering high-quality products at affordable prices. Many of Cayman's ELISAs employ acetylcholinesterase (AChE), a highly stable enzyme that offers the following advantages over other enzyme reporters:

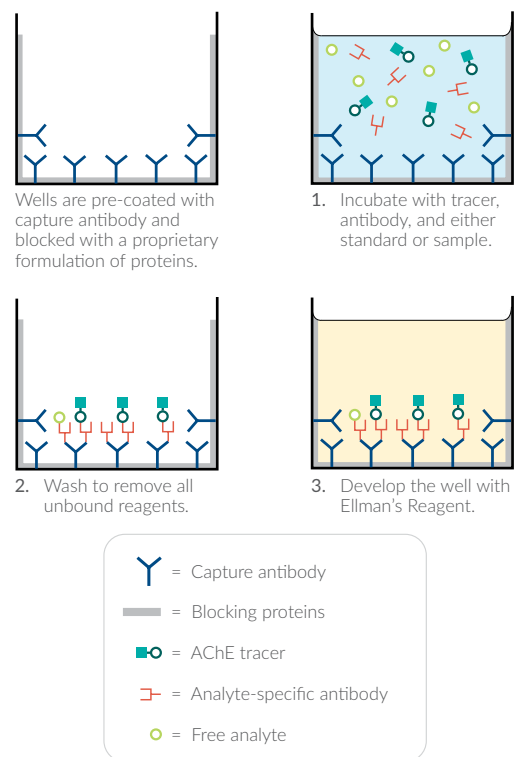
- Does not self-inactivate during turnover
- Enables redevelopment if assay is accidentally splashed or spilled
- Wide pH range (pH 5-10)
- Not affected by buffer salts or preservatives
- A stop reagent is not required
- Plate may be read at any time

Cayman's ELISAs also offer:

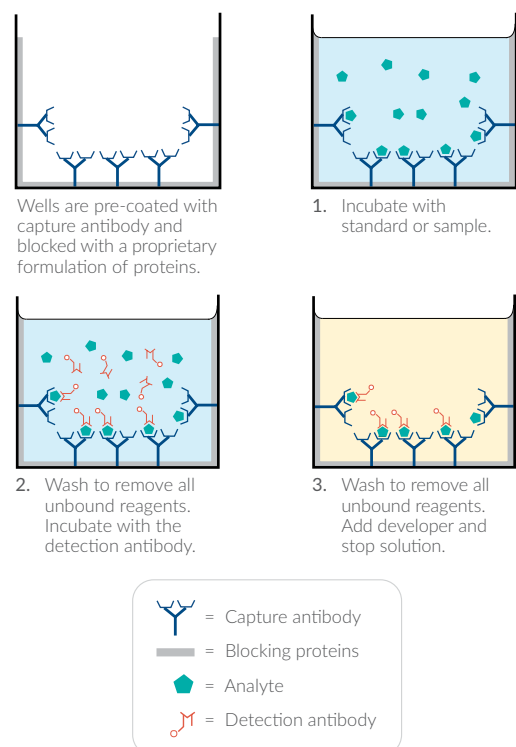
- Precise, sensitive readouts
- Low inter- and intra-assay variability
- Data analysis tools to aid with calculations
- World-class technical support backed by Cayman scientists

Competitive ELISAs are most commonly used to measure small molecules (*i.e.*, lipids, hormones, and small peptides). They are based on the competition between the analyte of interest and an enzyme-conjugated version of the same analyte for a limited number of specific antibody binding sites. The amount of tracer that binds to the antibody is inversely proportional to the concentration of the analyte in question.

Sandwich/Immunometric ELISAs are suitable for proteins and peptides greater than 20 amino acids in length. This assay format involves two antibodies that "sandwich" the analyte in question between them. A specific capture antibody coats the assay plate, and a second detection antibody is added to the well. The amount of analyte present is directly proportional to the amount of detection antibody, which is typically quantified by its enzyme conjugate.



Competitive ELISA



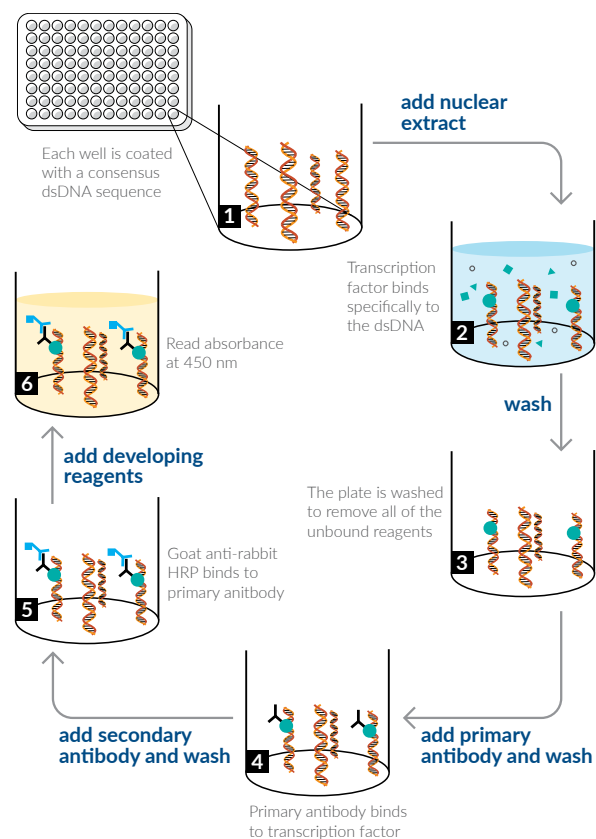
Sandwich/Immunometric ELISA

Transcription Factor Assays

Cayman Chemical's transcription factor assays are a colorimetric, non-radioactive, and sensitive method for detecting specific transcription factor DNA binding activity in nuclear extracts. This assay format replaces the cumbersome and unreliable electrophoretic mobility shift assays historically used to detect and quantify transcription factors.

This assay format immobilizes a dsDNA sequence containing the target-specific response element onto the wells of a 96-well plate. Transcription factors contained in a nuclear extract bind specifically to the DNA at the response element and are detected by a specific primary antibody. A secondary antibody conjugated to HRP is added to provide a colorimetric readout at 450 nm.

A Nuclear Extraction Kit (Item No. 10009277) is available as a companion to Cayman's transcription factor kits to aid in the isolation of nuclear and cytoplasmic fractions from cultured cells or tissue homogenates. (see page 65)



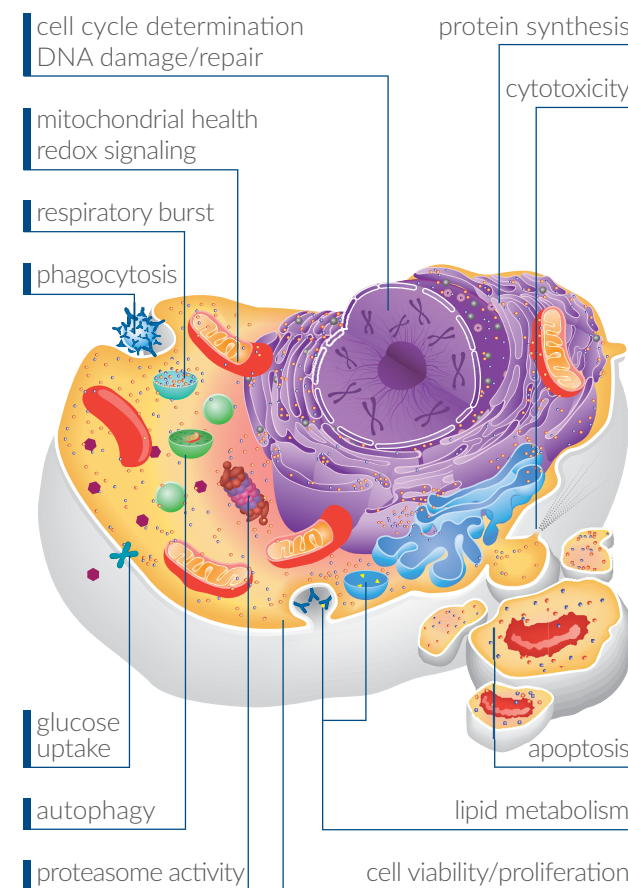
Transcription Factor Assay Protocol

CELL-BASED ASSAYS

Cayman Chemical offers more than 60 cell-based assays for use in studying a variety of cellular functions. Performed in a biologically relevant context, cell-based assays offer a flexible and adaptable method to detect perturbations in function following treatment with a compound of interest. Many of the kits follow simple protocols and can be used with multiple readout formats, making these assays highly adaptable across labs and amenable to high-throughput screening applications.

Kits are available to measure:

- **Basic cellular metabolism:** uptake of glucose to protein synthesis, oxygen consumption, and glycolysis
- **Cell viability/death:** cell proliferation, viability, and apoptosis
- **Neutrophil and monocyte functions:** NET formation, enzyme activity, and phagocytosis
- **Lymphocyte function:** proliferation and cytotoxicity
- **Atherosclerosis and obesity:** cellular lipid uptake, trafficking and synthesis, and adipocyte formation



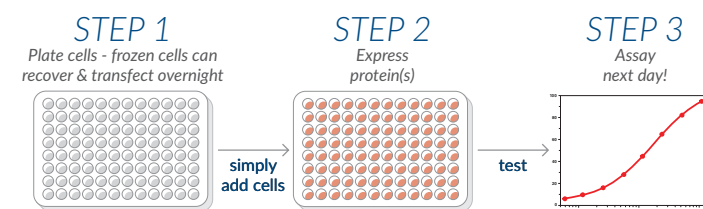
Assays Available for Studying a Variety of Cellular Functions

Reverse Transfection Assays

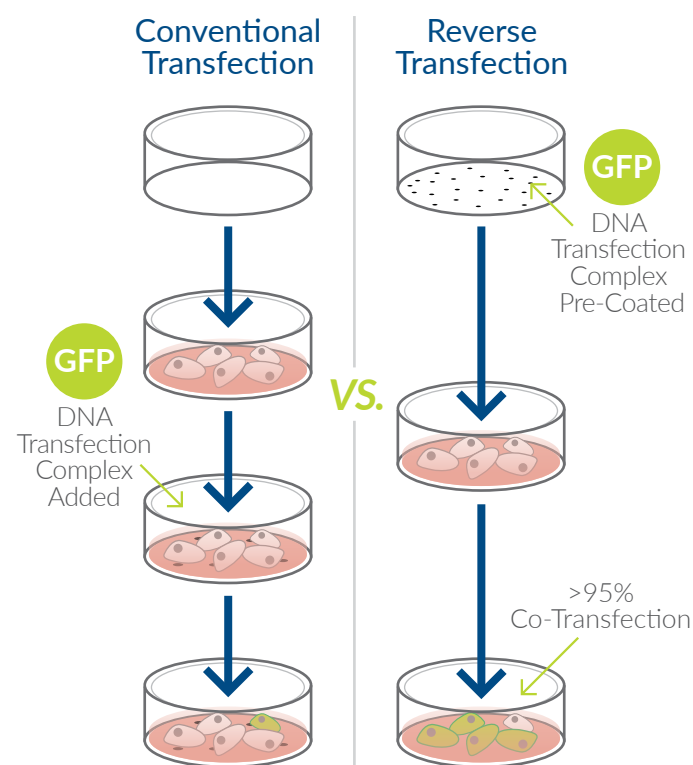
Reliable, reproducible transfection assays in a format that's both convenient and scalable.

- No need to develop, maintain, or expand stable cell lines
- Avoid cell lineage variability
- Suitable for difficult targets for which stable cell lines are not sustainable

Reverse Transfection Reporter Assay technology uses plates pre-coated with optimized transfection complexes, offering up to 3-fold increased transfection and >95% co-transfection efficiency that's consistent well to well. This unique system is ideal for rapid assay development and high-throughput screening.



Reverse Transfection Assay Setup



Comparison of Transfection Methods

ACTIVITY & DETECTION ASSAYS

Cayman Chemical's activity and detection assays are designed to quantify biomarkers for biological processes, assess mitochondrial function/toxicity, or screen for compounds that affect the activity of various enzymes.

Detection Assays

Cayman Chemical offers a robust line of detection assays for use in metabolism, oxidative stress, immunology, and epigenetics research. These assays have been developed for quick and accurate quantification of biomarkers including small molecules, proteins, and signaling ions such as calcium and phosphate. These assays follow easy, two- to three-step protocols consisting of short incubations with colorimetric or fluorometric substrates followed by a kinetic or end-point analysis. Kits have been developed for use on standard 96-well plate readers and include detailed instructions, all necessary reagents, and sample preparation protocols to run your analysis.

- Simple and fast protocols
- Accurate and reproducible
- Low intra- and inter-assay variability
- Validated by in-house Cayman scientists for relevant matrices
- Backed by world-class technical support

Activity and Compound Screening Assays

Cayman Chemical offers more than 50 unique *in vitro* assays to screen enzyme activity. Optimized to save you time in assay development, these assays are easy to use, sensitive, and reliable options to help researchers evaluate the effect of compounds on target activity. Kits come equipped with all the necessary components including detailed protocols, active enzymes, substrates, and specific inhibitors to allow you to run assays with speed and confidence.

MitoCheck® Bioenergetics Assays

Create a full mitochondrial function and toxicity profile with simple and cost-effective MitoCheck® assay kits.

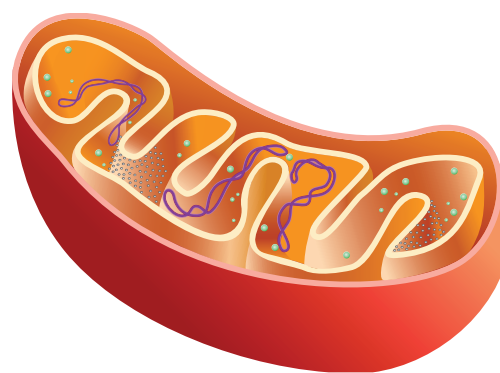
- No need for expensive equipment or lengthy incubations
- Adapted for use with microplate readers
- Amenable to high-throughput screening

MitoCheck® kits offer researchers the simplest and most biochemically relevant system for studying mitochondrial function. Designed as a set of tools to evaluate mitochondrial toxicity, the kits can function together or as stand-alone assays. Assays are available to screen potential inhibitors of the electron transport chain, assess mitochondrial function in cells by detecting the rate of oxygen consumption, determine citrate synthase activity, and measure mitochondrial membrane potential.

To learn more about methods for mechanism-based mitochondrial toxicity screening, read our application note: Screening of Antipsychotic Compounds for Mitochondrial Toxicity. (www.caymanchem.com/mitonote)

Primary Screening Assays (OCR, membrane potential)

Secondary Screening Assays (Complexes I-V)



MitoCheck® Assays

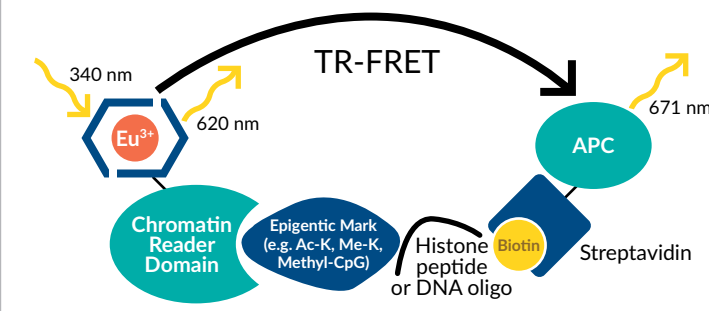
TR-FRET Assays

Cayman Chemical's TR-FRET assays are designed to characterize the interaction of chromatin reader domains with potential inhibitors or probes.

- Rapid and amenable to high-throughput screening
- Homogeneous mix and read TR-FRET in 384-well format
- Substrate-independent, non-kinetic assay
- Miniaturized to final assay volume of 20 µl

Fluorescence Resonance Energy Transfer (FRET), a useful method for detecting protein/protein interactions, is based on the transfer of energy between distinct donor and acceptor fluorophores. When in close proximity (~100 Å), excitation of the donor fluorophore triggers an energy transfer to the acceptor fluorophore, which then emits fluorescence at a distinct wavelength. TR-FRET employs the principles of FRET, but uses a donor fluorophore with a significantly longer fluorescent half-life. This allows for a time delay to be introduced between excitation of the donor fluorophore and the fluorescence measurement. This method minimizes background fluorescence interference, which is particularly useful for high-throughput screening.

In Cayman's TR-FRET assays, the donor fluorophore is a specific recombinant reader domain labeled with a europium chelate. A biotinylated peptide containing a target acetylated lysine serves as a ligand for the reader domain. APC-labeled streptavidin binds with high affinity to the peptide substrate via the biotin moiety and serves as the acceptor fluorophore. Inhibition of the bromodomain/peptide interaction results in loss of the TR-FRET signal.

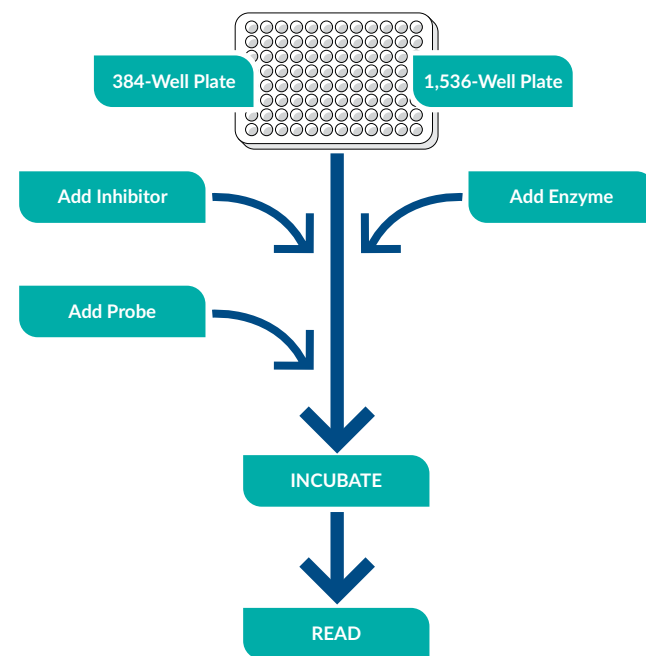


TR-FRET Assay

Screen for SAM-competitive methyltransferase inhibitors with SAM-Screener™ one-step, fluorescent polarization assays.

- Non-kinetic, substrate-independent, and scalable to 1,536-well format
- Plate-based fluorescence polarization measurement
- Assay kits currently available for SET7/9, GLP, and MLL1 enzymes
- Amenable to high-throughput screening

S-Adenosyl-L-methionine (SAM) is a co-substrate of lysine methyltransferases utilized during the methylation of lysine residues on various proteins, including histones. Cayman Chemical's SAM-Screener™ assays provide a proprietary small molecule fluorescent probe that binds in the SAM binding pocket. Binding of the probe induces a pronounced increase in fluorescence polarization (FP), whereas displacement of the probe by SAM-binding site inhibitors results in concentration-dependent loss of the FP signal. The SAM-Screener™ assay platform offers a method for studying substrate recognition by methyltransferases and identifying SAM-competitive inhibitors. This quick and efficient assay eliminates the need for complicated multi-step or radioactive enzyme assays, thereby allowing rapid screening of large chemical libraries for new and specific methyltransferase inhibitors.



SAM-Screener™ Assay Setup

RELATED TOOLS

Sample Preparation

Sample preparation is the first and most important step in any assay procedure. Cayman Chemical makes this process quick and convenient by packaging necessary reagents and/or materials plus simplified instructions for the isolation, purification, or extraction of various experimental samples. These products are designed to help circumvent common errors that may occur during the preparation of experimental samples and serve as companions to various assay kits included in this catalog.

For a complete list, see page 65.

Screening Libraries

Cayman Chemical offers a variety of chemical libraries produced from our collection of high-quality and high-purity compounds. Designed for use in assay screening and drug discovery, focused plates are available for bio-active lipids, fatty acids, prostaglandins, kinase inhibitors, epigenetic compounds, and stem cell small molecule screening applications. The screening libraries are available in a 96-well Matrix tube rack format as stock solutions in DMSO. Any potential screening hit may be purchased individually for activity confirmation and further analysis.

Custom libraries produced from Cayman's compound collection of more than 6,000 molecules are also available to meet your exact screening requirements.

For a complete list, see page 66.

Technology Partners

Cayman Chemical is proud to partner with the following companies in delivering high-quality research products:



CONTRACT RESEARCH SERVICES FROM CAYMAN



We offer you the deep and diverse knowledge of more than 100 in-house scientists and the expertise that comes from more than three decades of designing and developing the tools to advance biomedical research.

Cayman Chemical is known as a partner to scientists worldwide, responding to your needs with services in:

- Analytical chemistry
- Assay development
- Bioanalytical assay
- Bioenergetics screening
- Custom antibody services
- Custom organic synthesis
- Epigenetic screening and profiling
- Medicinal chemistry
- Protein production and purification
- Structural biology

BIOANALYTICAL ASSAY SERVICES



Don't have a plate reader, time, or the resources available to run your assays?

Cayman Chemical's bioanalytical assay services support your needs for drug discovery and development, biomarkers, and basic research. We offer complete sample analysis for analytes measured by our off-the-shelf assays. With our line of well-characterized immunoassays, cell-based assays, and biochemical kits, combined with our knowledgeable and highly experienced scientific staff, we provide accurate, high-quality data. Our bioanalytical assay services include new assay development, customized method development, and sample analysis in multiple biological matrices. As a direct assay kit manufacturer, our staff has a unique understanding of assay development and performance.

To learn more about these services, or to discuss your contract research service needs, please contact us.

Email us at contractresearch@caymanchem.com
 Visit us online at www.caymanchem.com/services
 Call us at (734) 975-3888

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Neuroscience

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Nitric Oxide & Oxidative Injury

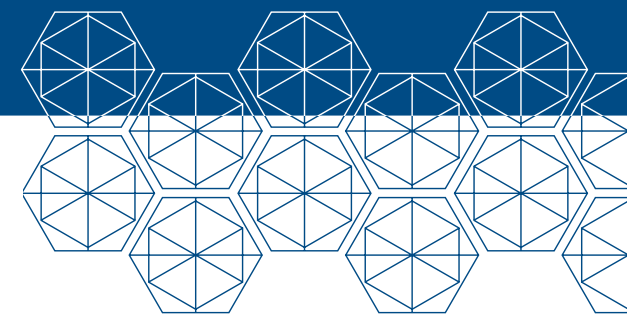
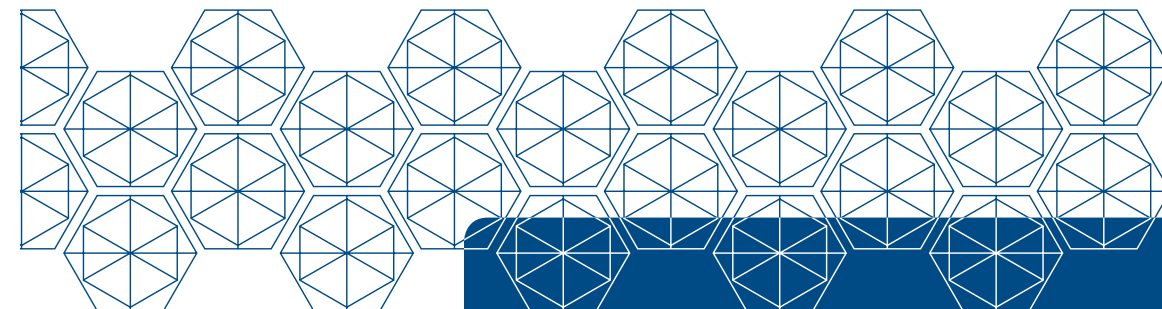
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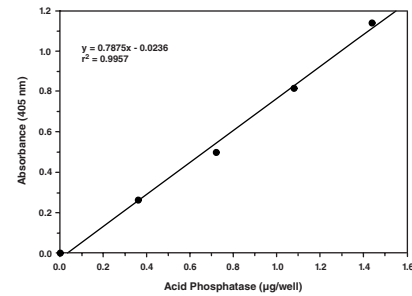
KIT INFORMATION (ALPHABETICAL)

7-AAD/CFSE Cell-Mediated Cytotoxicity Assay Kit 600120

- Label target cells with highly fluorescent 5-(6)-carboxyfluorescein diacetate succinimidyl ester (CFSE) for easy identification
- Dead cells stain with 7-amino actinomycin D (7-AAD)
- Analyze by flow cytometry to assess target cell killing

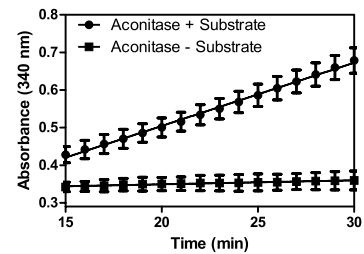
Acid Phosphatase Colorimetric Assay Kit 10008051

- Measure acid phosphatase (AP) activity in plasma, serum, urine, and semen
- Assay 44 samples in duplicate/96-well plate
- Includes L-tartrate for measuring tartrate resistant AP activity
- Plate-based colorimetric measurement (405-414 nm)



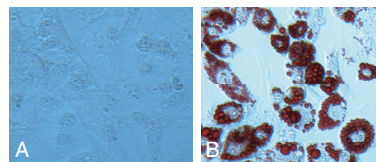
Aconitase Assay Kit 705502

- Measure aconitase activity in tissue homogenates or cell lysates
- Assay 23 samples in duplicate
- Measure aconitase activity down to 1.7 U/ml
- Plate-based colorimetric measurement (340 nm)



Adipogenesis Assay Kit 10006908

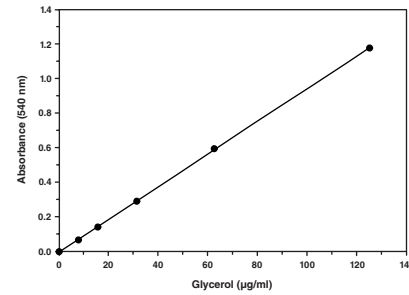
- Contains the reagents needed for induction of adipogenesis *in vitro*
- Contains the reagents needed to stain lipid droplets in adipocytes
- Assess by microscopy or plate reader



Panel A: Non-differentiated 3T3-L1 cells. Panel B: Lipid droplets accumulate upon differentiation of 3T3-L1 cells, visualized by Oil Red O Solution staining.

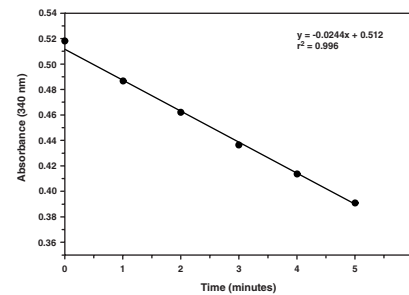
Adipolysis Assay Kit 10009381

- Screen compounds involved in lipid storage and metabolism
- Contains the reagents needed for induction of adipogenesis *in vitro*, to release glycerol from stored lipid droplets, and to accurately measure the released glycerol



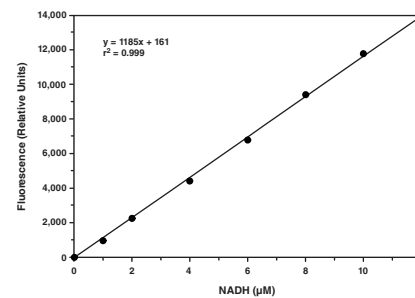
Alanine Transaminase Colorimetric Activity Assay Kit 700260

- Measure alanine transaminase (ALT) activity in serum, plasma, tissue samples, and cell lysates
- Assay 47 samples in duplicate
- Measure ALT activity down to 0.006 U/ml
- Plate-based colorimetric measurement (340 nm)



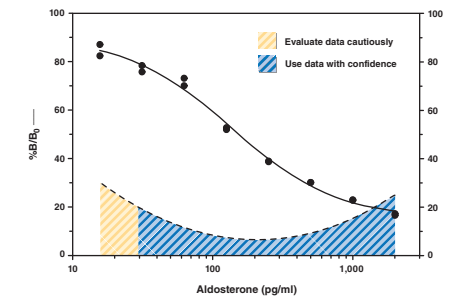
Aldehyde Dehydrogenase Activity Assay Kit 700800

- Measure aldehyde dehydrogenase (ALDH) activity in tissue homogenates, cell culture samples, and purified ALDH preparations
- Assay 20 samples in duplicate
- Measure ALDH activity down to 0.4 U/ml
- Plate-based fluorometric measurement (ex 530-540 nm, em 585-595 nm)



Aldosterone ELISA Kit 501090

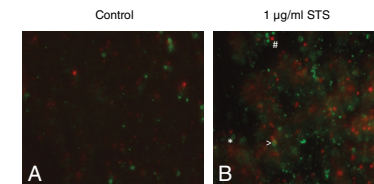
- Measure aldosterone, the principle mineralocorticoid controlling sodium and potassium balance
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure aldosterone levels down to 30 pg/ml
- Incubation: 18 hours | Development: 90-120 minutes | Read: Colorimetric at 405-420 nm



Assay Range = 15.6-2,000 pg/ml
Sensitivity (defined as 80% B/B₀) = ~30 pg/ml
Mid-point (defined as 50% B/B₀) = ~100-180 pg/ml
The sensitivity and mid-point were derived from the standard curve shown above. The standard was diluted with ELISA Buffer.

Annexin V FITC Assay Kit 600300

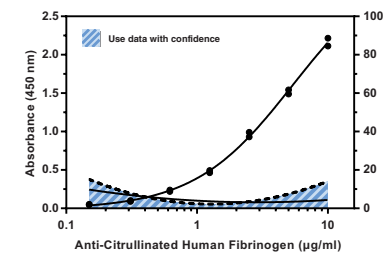
- Identify cells undergoing apoptosis
- Assess by flow cytometry or fluorescence microscopy
- Sufficient reagent to test 500 samples
- 30 minute staining protocol



Staurosporine (STS) induced apoptosis in RAW 264.7 cells. Annexin V-FITC and PI labeled cells were visualized with fluorescence microscopy. Annexin V-FITC positive cells (*) are early apoptotic, double positive cells (-) are late apoptotic, and PI single positive cells (#) are necrotic.

Anti-Citrullinated Human Fibrinogen Assay Kit (mouse) 501270

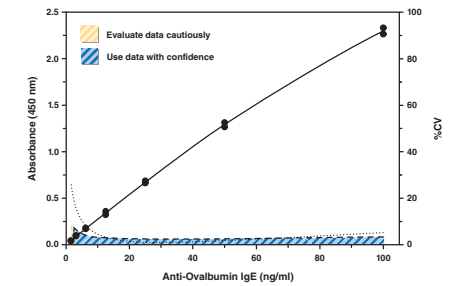
- Measure antibodies specific for citrullinated human fibrinogen
- Use with mouse plasma or serum
- Assay Range: 0.15-10 µg/ml with an LLOQ of 0.15 µg/ml
- Human fibrinogen affinity sorbent included for purification from any antibodies capable of reacting with non-citrullinated (unmodified) fibrinogen prior to analysis



Assay Range = 0.15-10 µg/ml
LLOQ = 0.15 µg/ml
The lower limit of quantitation (LLOQ) is defined as the lowest standard concentration in which O.D. - (1.64 x S.D.) is higher than the blank value of O.D. + (1.64 x S.D.). The standard was diluted with Immunoassay Buffer B.

Anti-Ovalbumin IgE (mouse) ELISA Kit 500840

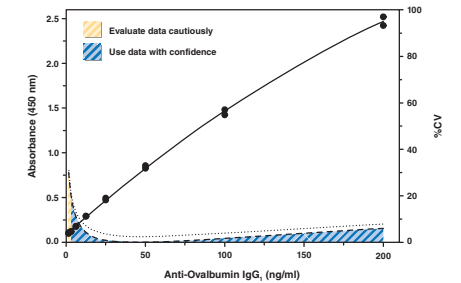
- Measure mouse anti-ovalbumin IgE (anti-OVA IgE) in mouse plasma, serum, or BAL fluids
- Employ a mouse anti-OVA IgE monoclonal antibody standard for reproducible results
- Assay Range: 3.12-100 ng/ml with an LLOQ of 3.12 ng/ml
- Rapid assay; get results in under 4 hours



Assay Range = 3.12-100 ng/ml
LLOQ = 3.12 ng/ml
The lower limit of quantitation (LLOQ) is defined as the lowest standard concentration in which O.D. - (1.64 x S.D.) is higher than the blank value of O.D. + (1.64 x S.D.). The standard was diluted with Assay Buffer.

Anti-Ovalbumin IgG₁ (mouse) ELISA Kit 500830

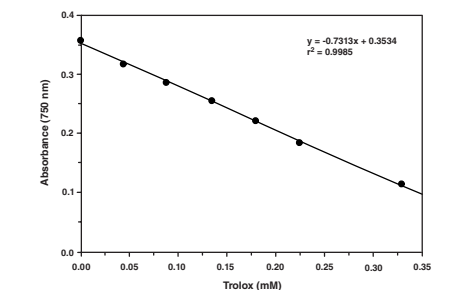
- Measure mouse anti-ovalbumin IgG₁ (anti-OVA IgG₁) in mouse plasma, serum, or BAL fluids
- Employ an affinity-purified mouse anti-OVA IgG₁ polyclonal antibody standard for accurate results
- Assay Range: 1.56-200 ng/ml with an LLOQ of 1.56 ng/ml
- Rapid assay; get results in under 4 hours



Assay Range = 1.56-200 ng/ml
LLOQ = 1.56 ng/ml
The lower limit of quantitation (LLOQ) is defined as the lowest standard concentration in which O.D. - (1.64 x S.D.) is higher than the blank value of O.D. + (1.64 x S.D.). The standard was diluted with Assay Buffer.

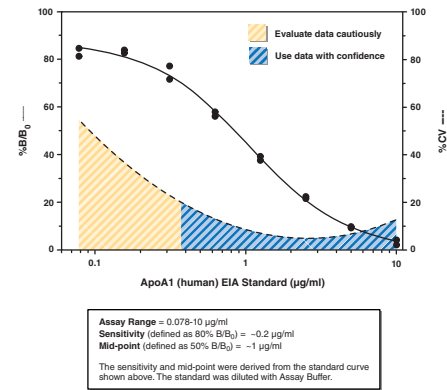
Antioxidant Assay Kit 709001

- Measure the total antioxidant capacity of plasma, serum, urine, saliva, or cell lysates
- Assay 41 samples in duplicate
- Measure antioxidant capacity in Trolox equivalents down to 44 µM
- Plate-based colorimetric measurement (750 or 405 nm)



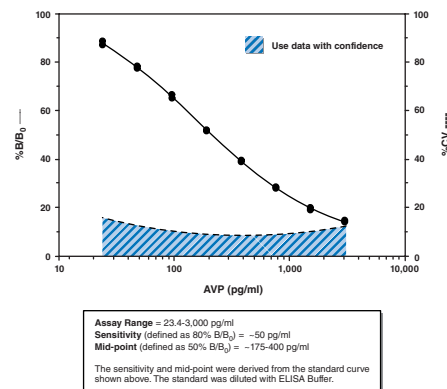
ApoA1 (human) ELISA Kit 501080

- Measure human apolipoprotein A1 (ApoA1), a major component of HDL, in plasma or serum
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure ApoA1 levels down to 200 ng/ml
- Rapid assay; get results in under 4 hours



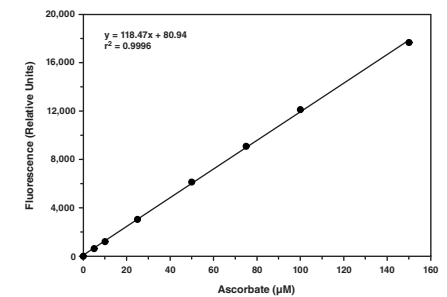
Arginine Vasopressin ELISA Kit 583951

- Measure arginine vasopressin (AVP), a nine amino acid peptide that regulates water secretion in all mammals
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure plasma AVP levels down to 50 pg/ml
- Incubation: 18 hours | Development: 90-120 minutes | Read: Colorimetric at 405-420 nm



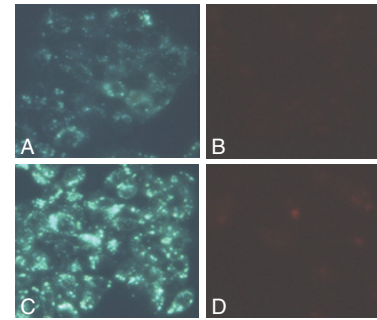
Ascorbate Assay Kit 700420

- Quantify ascorbate from plasma, serum, urine, and fruit juices
- Assay 40 samples in duplicate
- Assay Range: 5-150 µM
- Plate-based fluorometric measurement (ex 340-350 nm, em 420-430 nm)



Autophagy/Cytotoxicity Dual Staining Kit 600140

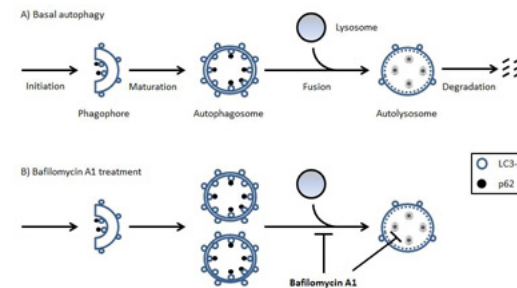
- Utilize the fluorescent reagent monodansylcadaverine to label autophagic vacuoles
- Propidium iodide included for dead cell exclusion
- Tamoxifen included as an autosome-inducing control



Tamoxifen treated HepG2 - Fluorescence microscopy. Panel A: MDC staining of HepG2 cells treated with vehicle. Panel B: Propidium iodide staining of HepG2 cells treated with vehicle. Panel C: MDC staining of HepG2 cells treated with 10 µM tamoxifen. Panel D: Propidium iodide staining of HepG2 cells treated with 10 µM tamoxifen.

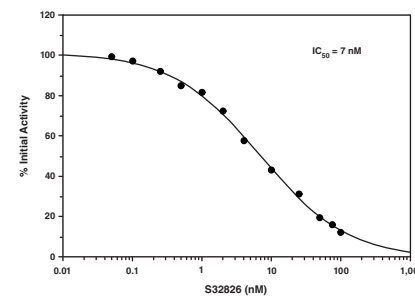
Autoplux Kit 15980

- Determine effect of your experiment on autophagy
- Identify and characterize autophagy modulators (activators/inhibitors)
- Assess result of gene knockdown (siRNA/shRNA) on autophagy
- Evaluate outcome of plasmid transfection/protein expression on autophagy
- Investigate autophagy in specific cell lines



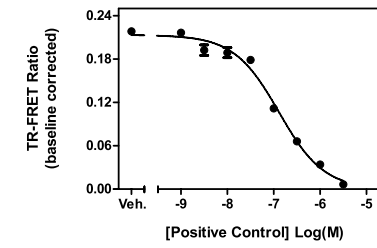
Autotaxin Inhibitor Screening Assay Kit 700580

- Screen for inhibitors of autotaxin
- Assay 45 samples in duplicate
- Plate-based colorimetric measurement (405-415 nm)



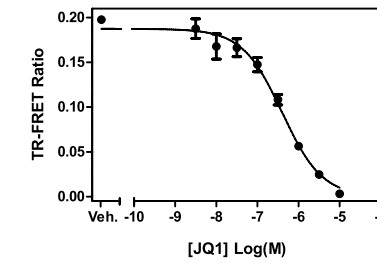
BAZ2B bromodomain TR-FRET Assay Kit 600710

- Homogeneous, time-resolved fluorescence energy transfer (TR-FRET) assay to screen for inhibitors
- Designed for high-throughput screening
- Plate-based, time-resolved fluorometric measurement (ex 340 nm, em 620 and 670 nm)



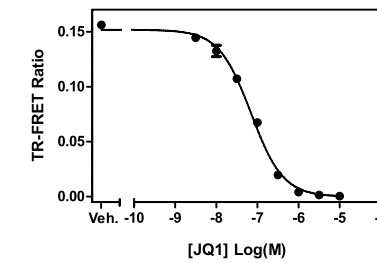
BRD2 bromodomain 1 TR-FRET Assay Kit 600500

- Homogeneous, time-resolved fluorescence energy transfer (TR-FRET) assay to screen for inhibitors
- Designed for high-throughput screening
- Plate-based, time-resolved fluorometric measurement (ex 340 nm, em 620 and 670 nm)



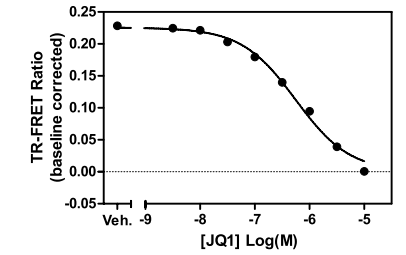
BRD2 bromodomain 2 TR-FRET Assay Kit 600510

- Homogeneous, time-resolved fluorescence energy transfer (TR-FRET) assay to screen for inhibitors
- Designed for high-throughput screening
- Plate-based, time-resolved fluorometric measurement (ex 340 nm, em 620 and 670 nm)



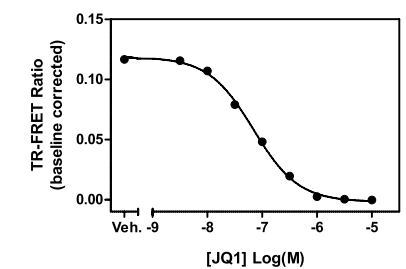
BRD2 bromodomains 1 and 2 TR-FRET Assay Kit 600810

- Homogeneous, time-resolved fluorescence energy transfer (TR-FRET) assay to screen for inhibitors
- Designed for high-throughput screening
- Plate-based, time-resolved fluorometric measurement (ex 340 nm, em 620 and 670 nm)



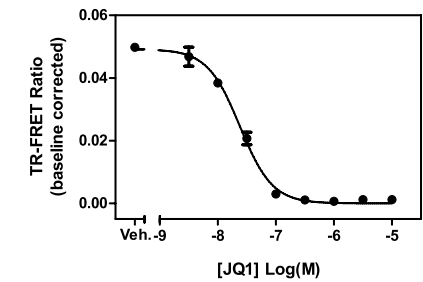
BRD3 bromodomain 1 TR-FRET Assay Kit 600630

- Homogeneous, time-resolved fluorescence energy transfer (TR-FRET) assay to screen for inhibitors
- Designed for high-throughput screening
- Plate-based, time-resolved fluorometric measurement (ex 340 nm, em 620 and 670 nm)



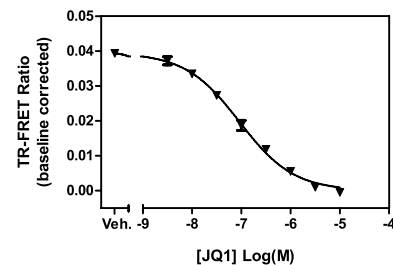
BRD3 bromodomain 2 TR-FRET Assay Kit 600640

- Homogeneous, time-resolved fluorescence energy transfer (TR-FRET) assay to screen for inhibitors
- Designed for high-throughput screening
- Plate-based, time-resolved fluorometric measurement (ex 340 nm, em 620 and 670 nm)



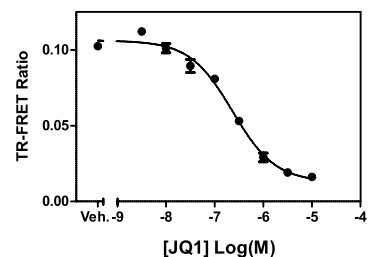
BRD3 bromodomains 1 and 2 TR-FRET Assay Kit 600820

- Homogeneous, time-resolved fluorescence energy transfer (TR-FRET) assay to screen for inhibitors
- Designed for high-throughput screening
- Plate-based, time-resolved fluorometric measurement (ex 340 nm, em 620 and 670 nm)



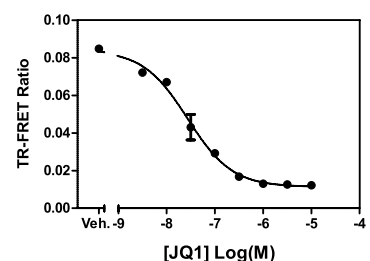
BRD4 bromodomain 1 TR-FRET Assay Kit 600520

- Homogeneous, time-resolved fluorescence energy transfer (TR-FRET) assay to screen for inhibitors
- Designed for high-throughput screening
- Plate-based, time-resolved fluorometric measurement (ex 340 nm, em 620 and 670 nm)



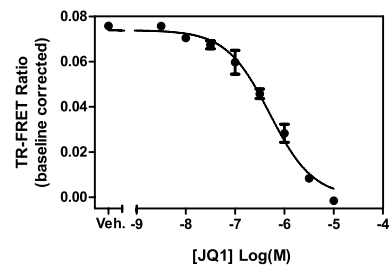
BRD4 bromodomain 2 TR-FRET Assay Kit 600530

- Homogeneous, time-resolved fluorescence energy transfer (TR-FRET) assay to screen for inhibitors
- Designed for high-throughput screening
- Plate-based, time-resolved fluorometric measurement (ex 340 nm, em 620 and 670 nm)



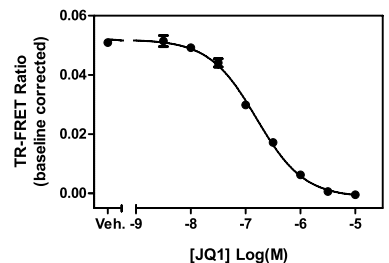
BRD4 bromodomains 1 and 2 TR-FRET Assay Kit 600830

- Homogeneous, time-resolved fluorescence energy transfer (TR-FRET) assay to screen for inhibitors
- Designed for high-throughput screening
- Plate-based, time-resolved fluorometric measurement (ex 340 nm, em 620 and 670 nm)



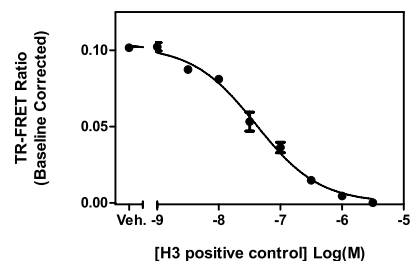
BRDT bromodomain 1 TR-FRET Assay Kit 600650

- Homogeneous, time-resolved fluorescence energy transfer (TR-FRET) assay to screen for inhibitors
- Designed for high-throughput screening
- Plate-based, time-resolved fluorometric measurement (ex 340 nm, em 620 and 670 nm)



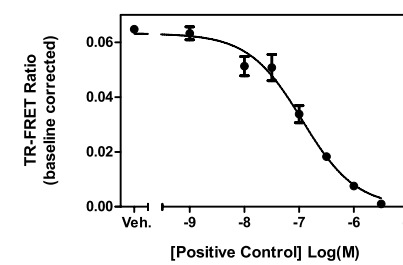
BRG1 bromodomain TR-FRET Assay Kit 600720

- Homogeneous, time-resolved fluorescence energy transfer (TR-FRET) assay to screen for inhibitors
- Designed for high-throughput screening
- Plate-based, time-resolved fluorometric measurement (ex 340 nm, em 620 and 670 nm)



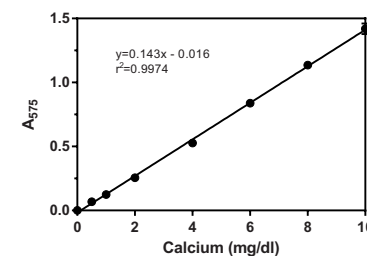
BRM bromodomain TR-FRET Assay Kit 600730

- Homogeneous, time-resolved fluorescence energy transfer (TR-FRET) assay to screen for inhibitors
- Designed for high-throughput screening
- Plate-based, time-resolved fluorometric measurement (ex 340 nm, em 620 and 670 nm)



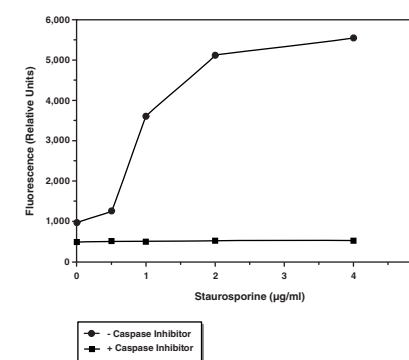
Calcium Assay Kit 701220

- Measure calcium in plasma, serum, urine, tissue homogenates, and cell lysates
- Assay 40 samples in duplicate
- Measure calcium down to 0.25 mg/dl
- Plate-based, colorimetric measurement (570-590 nm)



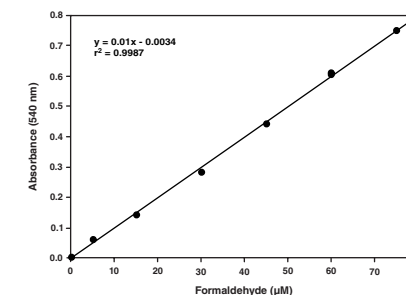
Caspase-3 Fluorescence Assay Kit 10009135

- Measure caspase-3 enzymatic activity levels in cell lysates
- Works with caspase-3 from multiple species
- Active caspase-3 generates a fluorescent product that is easily quantified



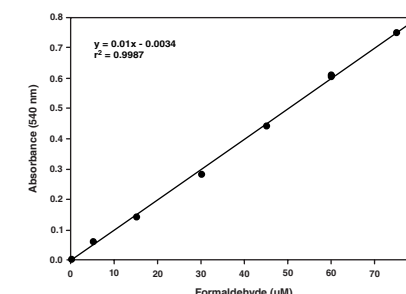
Catalase Assay Kit 707002

- Measure catalase activity in plasma, serum, erythrocyte lysates, tissue homogenates, and cell lysates
- Assay 40 samples in duplicate
- Measure catalase activity down to 2 U/ml
- Plate-based, colorimetric measurement (540 nm)



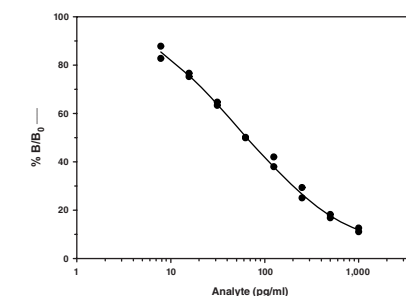
Catalase Assay Kit (without Hydrogen Peroxide) 700910

- Measure catalase activity in plasma, serum, erythrocyte lysates, tissue homogenates, and cell lysates
- Assay 40 samples in duplicate
- Measure catalase activity down to 2 U/ml
- Plate-based, colorimetric measurement (540 nm)



Cayman Practice ELISA Kit 10009658

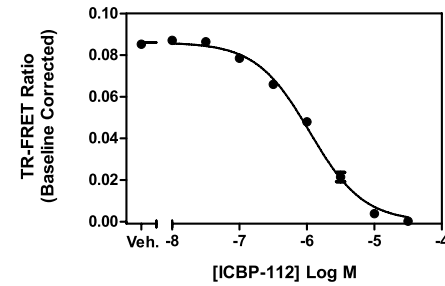
- A practice ELISA kit for those unfamiliar with performing competitive ELISAs
- Easy to follow instructions with helpful illustrations
- Low cost



Assay Range = 78-1,000 pg/ml
Sensitivity (defined as 50% B/B₀) = ~11 pg/ml
Mid-point (defined as 50% B/B₀) = ~50-120 pg/ml
The sensitivity and mid-point were derived from the standard curve shown above. The standard was diluted with ELISA Buffer.

CBP bromodomain TR-FRET Assay Kit 600850

- Homogeneous, time-resolved fluorescence energy transfer (TR-FRET) assay to screen for inhibitors
- Designed for high-throughput screening
- Plate-based, time-resolved fluorometric measurement (ex 340 nm, em 620 and 670 nm)

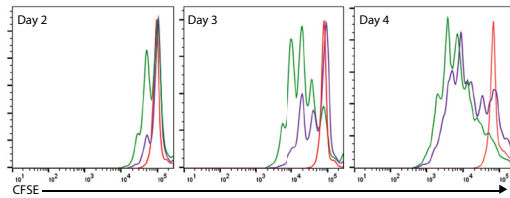


Cell Cycle Phase Determination Kit 10009349

- Flow cytometric analysis of cell cycle progression (G₀/G₁, G₂, or S phase)
- Contains reagents for fixing, permeabilizing, and staining cells
- Easy to follow protocol

CFSE Cell Division Assay Kit 10009853

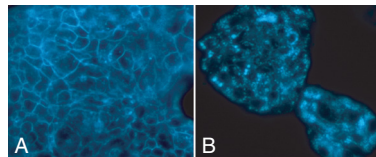
- Flow cytometric analysis of cell proliferation
- Cell division results in a halving of the fluorescent signal; up to eight divisions can be monitored
- Compatible with staining for cell-surface and intracellular markers



CD4+ T cells proliferate in response to T cell receptor antibodies and mitogenic stimuli.

Cholesterol Cell-Based Detection Assay Kit 10009779

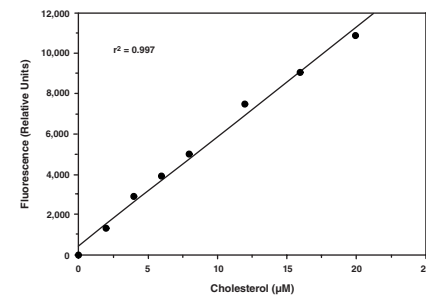
- Detect cholesterol uptake and localization within cultured cells
- Employ filipin III, a probe that fluoresces in the presence of cholesterol
- An inhibitor of cholesterol trafficking is included as a positive control



Accumulation of cholesterol in HepG2 cells in response to U-18666A. Cells were treated with DMSO vehicle or 1.25 μM U-18666A for 48 hours. Panel A: Vehicle treated cells demonstrate that the majority of cholesterol is localized on the plasma membrane. Panel B: U-18666A treated cells shows intracellular accumulation of cholesterol droplets.

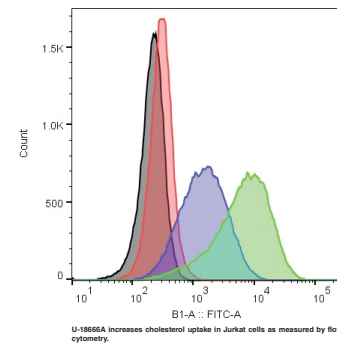
Cholesterol Fluorometric Assay Kit 10007640

- Quantitation of total cholesterol in plasma or serum
- Assay 40 samples in duplicate
- **Assay Range:** 2-20 μM
- Plate-based, fluorometric measurement (ex 530-540 nm, em 585-595 nm)



Cholesterol Uptake Cell-Based Assay Kit 600440

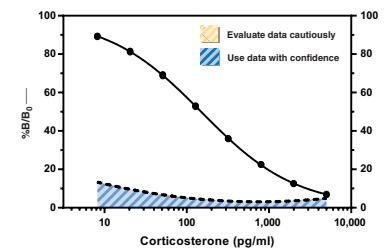
- Detect cholesterol uptake within cultured cells by flow cytometry or plate reader
- Employ NBD cholesterol, a fluorescently-tagged cholesterol
- An inhibitor of cholesterol trafficking is included as a positive control
- The kit provides enough NBD cholesterol to test 250 samples



U-18666A increases cholesterol uptake in Jurkat cells as measured by flow cytometry.

Corticosterone ELISA Kit 501320

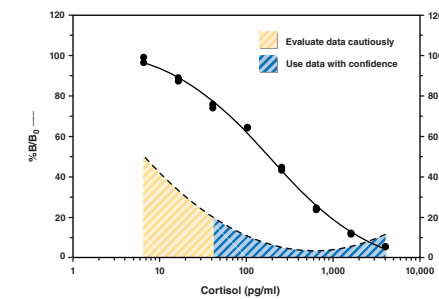
- Measure corticosterone in serum and rodent feces
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure corticosterone levels down to 30 pg/ml
- **Incubation:** Overnight | **Development:** 90-120 minutes | **Read:** Colorimetric at 405-420 nm



Assay Range = 8.2-5,000 pg/ml
Sensitivity (defined as 80% B/B₀) = ~30 pg/ml
Mid-point (defined as 50% B/B₀) = ~130-180 pg/ml
The sensitivity and mid-point were derived from the standard curve shown above. The standard was diluted with ELISA Buffer.

Cortisol ELISA Kit 500360

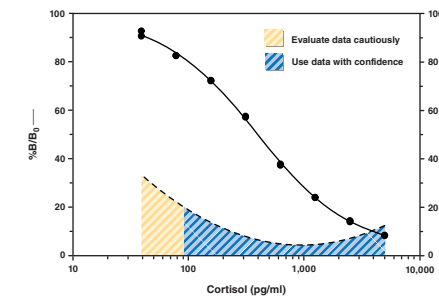
- Measure cortisol in urine, plasma, and other sample matrices
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure cortisol levels down to 180 pg/ml
- **Incubation:** 18 hours | **Development:** 90-120 minutes | **Read:** Colorimetric at 405-420 nm



Assay Range = 6.6-4,000 pg/ml
Sensitivity (defined as 80% B/B₀) = ~180 pg/ml
Mid-point (defined as 50% B/B₀) = ~150-210 pg/ml
The sensitivity and mid-point were derived from the standard curve shown above. The standard was diluted with ELISA Buffer.

Cortisol Express ELISA Kit 500370

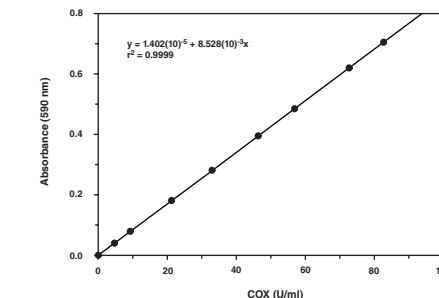
- Measure cortisol in urine, plasma, and other sample matrices
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure cortisol levels down to 110 pg/ml
- Rapid assay; get results in under 4 hours



Assay Range = 38.1-5,000 pg/ml
Sensitivity (defined as 80% B/B₀) = ~110 pg/ml
Mid-point (defined as 50% B/B₀) = ~300-500 pg/ml
The sensitivity and mid-point were derived from the standard curve shown above. The standard was diluted with ELISA Buffer.

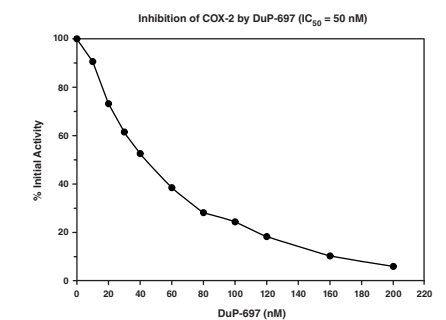
COX Activity Assay Kit 760151

- Measure cyclooxygenase (COX) activity in cell lysates, tissue homogenates, and purified enzyme preparations
- Measure the peroxidase component of the COX
- Assay 36 samples in duplicate
- Plate-based, colorimetric measurement (590 nm)
- Includes isozyme-specific inhibitors for distinguishing COX-2 activity from COX-1 activity



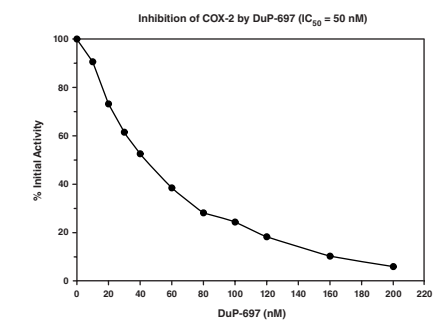
COX Colorimetric Inhibitor Screening Assay Kit 701050

- Screen for inhibitors of ovine cyclooxygenase (COX)-1 or human COX-2
- Measure the peroxidase component of the COX
- Assay 41 samples for COX-1 and 41 samples for COX-2 in duplicate
- Plate-based, colorimetric measurement (590 nm)



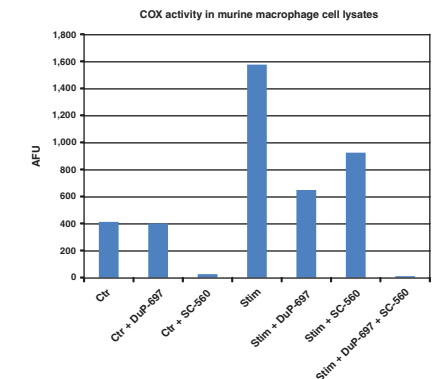
COX (ovine) Colorimetric Inhibitor Screening Assay Kit 760111

- Screen for inhibitors of ovine cyclooxygenase (COX)-1 or ovine COX-2
- Measure the peroxidase component of the COX
- Assay 41 samples for COX-1 and 41 samples for COX-2 in duplicate
- Plate-based, colorimetric measurement (590 nm)



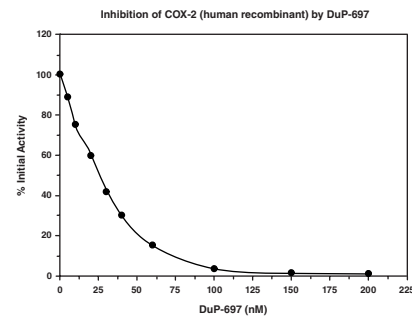
COX Fluorescent Activity Assay Kit 700200

- Measure cyclooxygenase (COX) activity in cell lysates, tissue homogenates, and purified enzyme preparations
- Measure the peroxidase component of the COX
- Assay 70 samples in duplicate
- Plate-based, fluorometric measurement (ex 530-540 nm, em 585-595 nm)
- Includes isozyme-specific inhibitors for distinguishing COX-2 activity from COX-1 activity



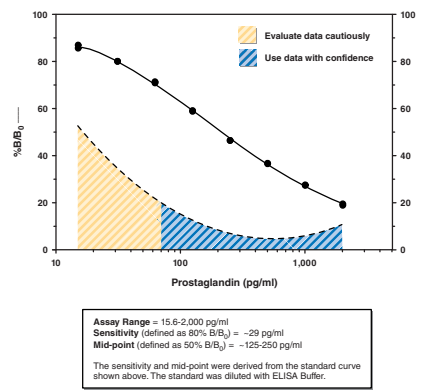
COX Fluorescent Inhibitor Screening Assay Kit 700100

- Screen for inhibitors of ovine cyclooxygenase (COX)-1 or human COX-2
- Measure the peroxidase component of the COX
- Assay 46 samples for COX-1 and 46 samples for COX-2 in duplicate
- Plate-based, fluorometric measurement (ex 530-540 nm, em 585-595 nm)



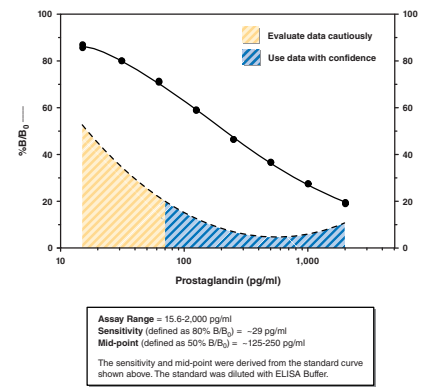
COX (ovine) Inhibitor Screening Assay Kit 560101

- Screen for inhibitors of ovine cyclooxygenase (COX)-1 or ovine COX-2
- Directly measure $PGF_{2\alpha}$ produced in the COX reaction
- Assay 15 samples for COX-1 or COX-2 in duplicate
- Plate-based, colorimetric measurement (405-420 nm)



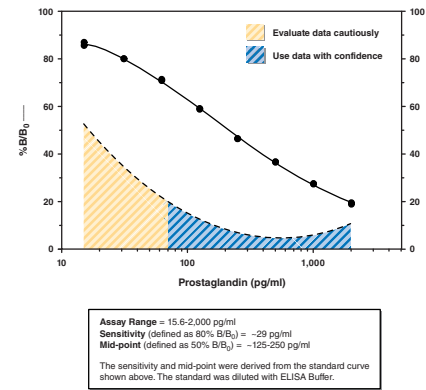
COX (ovine/human) Inhibitor Screening Assay Kit 560131

- Screen for inhibitors of ovine cyclooxygenase (COX)-1 or human COX-2
- Directly measure $PGF_{2\alpha}$ produced in the COX reaction
- Assay 15 samples for COX-1 or COX-2 in duplicate
- Plate-based, colorimetric measurement (405-420 nm)



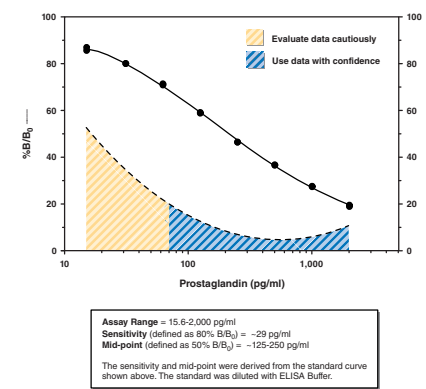
COX-1 (human) Inhibitor Screening Assay Kit 701070

- Screen for inhibitors of human cyclooxygenase 1 (COX-1)
- Directly measure prostaglandin production
- Assay 16 samples in duplicate
- Plate-based, colorimetric measurement (405-420 nm)



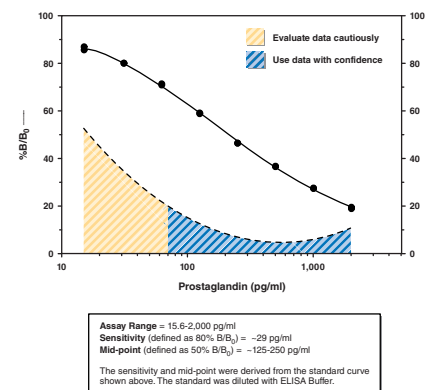
COX-1 (ovine) Inhibitor Screening Assay Kit 701090

- Screen for inhibitors of ovine cyclooxygenase 1 (COX-1)
- Directly measure prostaglandin production
- Assay 16 samples in duplicate
- Plate-based, colorimetric measurement (405-420 nm)



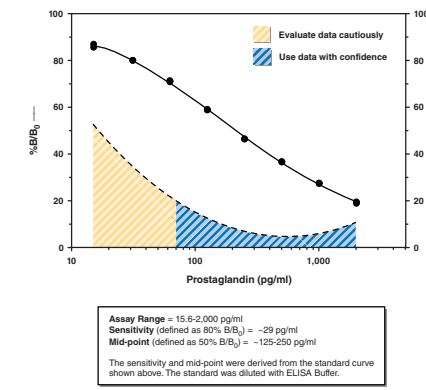
COX-2 (human) Inhibitor Screening Assay Kit 701080

- Screen for inhibitors of human cyclooxygenase 2 (COX-2)
- Directly measure prostaglandin production
- Assay 16 samples in duplicate
- Plate-based, colorimetric measurement (405-420 nm)



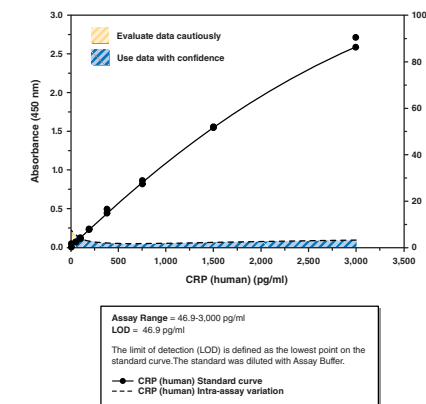
COX-2 (ovine) Inhibitor Screening Assay Kit 702000

- Screen for inhibitors of ovine cyclooxygenase 2 (COX-2)
- Directly measure prostaglandin production
- Assay 16 samples in duplicate
- Plate-based, colorimetric measurement (405-420 nm)



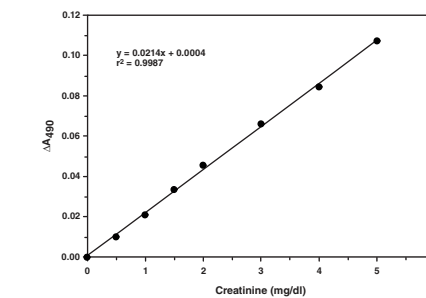
C-Reactive Protein (human) ELISA Kit 10011236

- Measure C-reactive protein (CRP) from human plasma without prior sample purification
- Measure human CRP down to 46.9 pg/ml
- Rapid assay; get results in under 3 hours



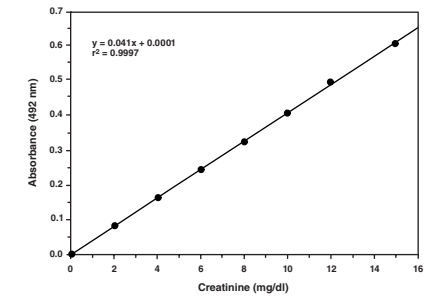
Creatinine (serum) Colorimetric Assay Kit 700460

- Measure creatinine levels in plasma and serum
- Assay 40 samples in duplicate
- Measure creatinine levels down to 0.1 mg/dl
- Plate-based, colorimetric measurement (490-500 nm)



Creatinine (urinary) Colorimetric Assay Kit 500701

- Measure creatinine levels in urine
- Assay 40 samples in duplicate
- Measure creatinine levels down to 0.1 mg/dl
- Plate-based, colorimetric measurement (490-500 nm)

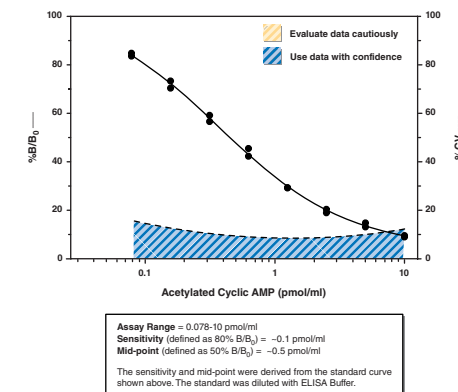


CREB (Phospho-Ser¹³³) Transcription Factor Assay Kit 10009846

- A sensitive, non-radioactive method of detecting cAMP-response-element-binding protein (CREB) from whole cell lysates
- 96-well plate format replaces electrophoretic mobility shift assays (EMSA)
- Capture the transcription factor using a specific dsDNA sequence bound to the plate
- Detect the dsDNA-bound transcription factor with specific antibodies in an ELISA format
- Nuclear Extraction Kit (Item No. 10009277) available to aid in the isolation of nuclear and cytoplasmic fractions from cell lysates or tissue homogenates

Cyclic AMP ELISA Kit 581001

- Measure acetylated or non-acetylated cyclic AMP (cAMP) in cell lysates, tissue homogenates, plasma or urine
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure cAMP levels down to 0.1 pmol/ml
- Incubation: 18 hours | Development: 60-90 minutes | Read: Colorimetric at 405-420 nm
- Contains acetic anhydride

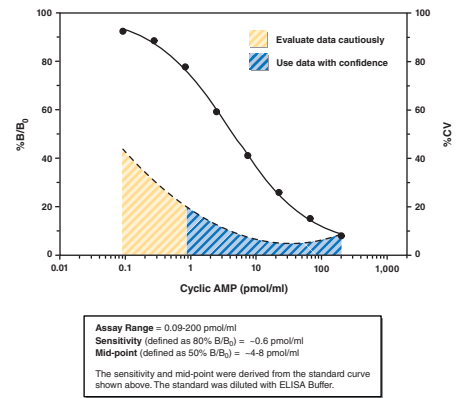


Also Available: Cyclic AMP ELISA Kit (without Acetic Anhydride) Item No. 581002

Cyclic AMP Select ELISA Kit

501040

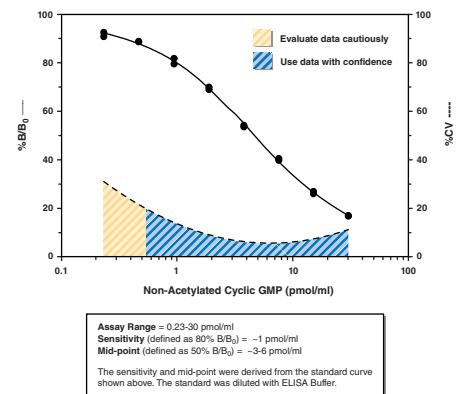
- A sensitive assay for cyclic AMP (cAMP) in multiple sample matrices without the need for acetylation
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure cAMP levels down to 0.6 pmol/ml
- **Incubation:** 18 hours | **Development:** 90-120 minutes | **Read:** Colorimetric at 405-420 nm



Cyclic GMP ELISA Kit

581021

- Detect non-acetylated or acetylated cyclic GMP (cGMP) in cell lysates, tissue homogenates, plasma, or urine
- Measure non-acetylated cGMP levels down to 1 pmol/ml or acetylated cGMP levels down to 0.1 pmol/ml
- Assay 24 samples in triplicate or 36 samples in duplicate
- Contains acetic anhydride
- **Incubation:** 18 hours | **Development:** 60-90 minutes | **Read:** Colorimetric at 405-420 nm

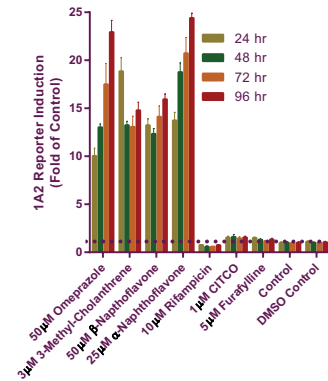


Also Available: Cyclic GMP ELISA Kit (without Acetic Anhydride) Item No. 581022

CYP1A1/2 Induction Reporter Assay Kit

600670

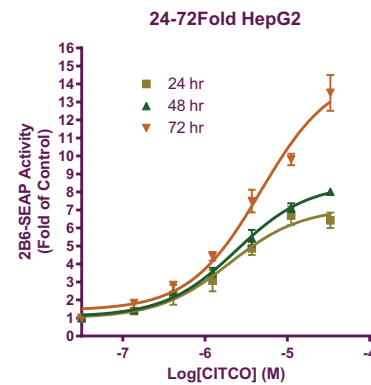
- A 96-well plate coated with DNA encoding a CYP1A1/2 promoter-regulated reporter enzyme (SEAP)
- Cells grown on the complex will express the CYP1A1/2 promoter-regulated SEAP
- Binding of inducer-activated endogenous transcription factors to the CYP1A1/2 promoter will activate SEAP expression
- SEAP secreted into the supernatant cleaves a luminescence-based substrate



CYP2B6 Induction Reporter Assay Kit

600680

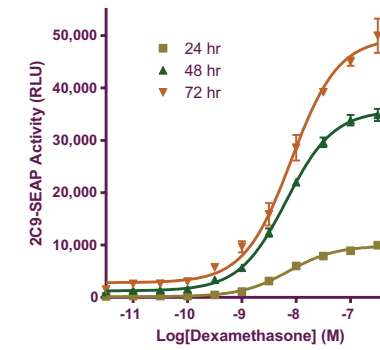
- A 96-well plate coated with DNA encoding a CYP2B6 promoter-regulated reporter enzyme (SEAP) and two nuclear receptors, hCAR3 and HNF4α
- Cells grown on the complex will express the two nuclear receptors and the CYP2B6 promoter-regulated SEAP
- CAR-mediated CYP2B6 inducers will activate SEAP expression
- SEAP secreted into the supernatant cleaves a luminescence-based substrate



CYP2C9 Induction Reporter Assay Kit

601120

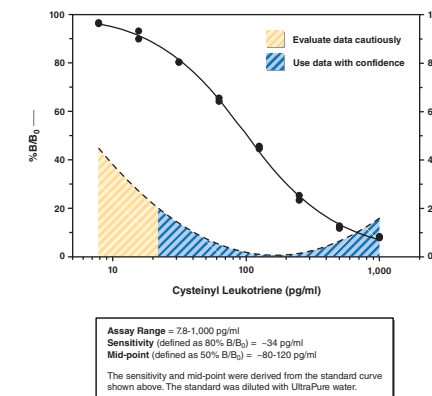
- A 96-well plate coated with DNA encoding a CYP2C9 promoter-regulated reporter enzyme (SEAP) and two nuclear receptors, GRα and HNF4α
- Cells grown on the complex will express the two nuclear receptors and the CYP2C9 promoter-regulated SEAP
- GR-mediated CYP2C9 inducers will activate SEAP expression
- SEAP secreted into the supernatant cleaves a luminescence-based substrate



Cysteinyl Leukotriene ELISA Kit

500390

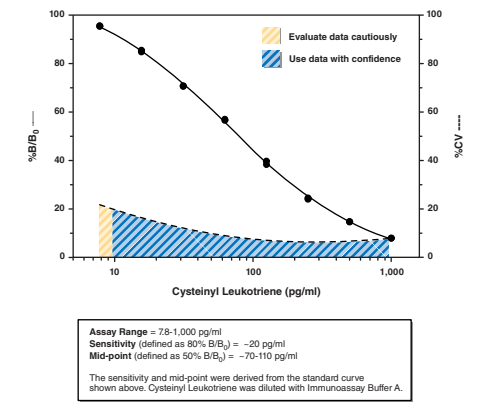
- Detect all cysteinyl leukotrienes (CysLTs) (LTC₄, LTD₄, and LTE₄) in urine and other sample matrices
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure CysLT levels down to 34 pg/ml
- **Incubation:** 18 hours | **Development:** 90-120 minutes | **Read:** Colorimetric at 405-420 nm



Cysteinyl Leukotriene Express ELISA Kit

10009291

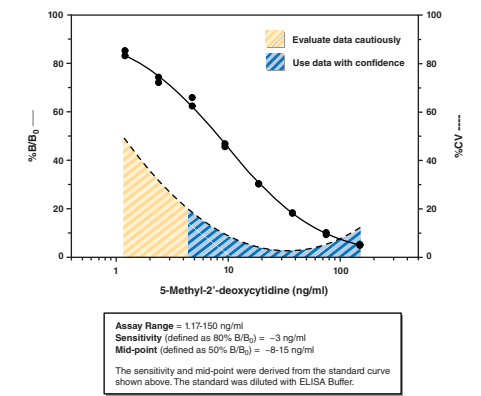
- Detect all cysteinyl leukotrienes (CysLTs) (LTC₄, LTD₄, and LTE₄) in urine, tissue culture medium, and other sample matrices
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure CysLT levels down to 20 pg/ml
- **Incubation:** 2 hours | **Development:** 60-90 minutes | **Read:** Colorimetric at 405-420 nm



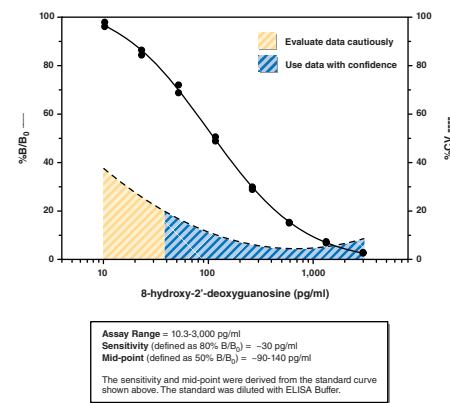
DNA Methylation ELISA Kit

589324

- Measure 5-methyl-2'-deoxy cytidine in urine, plasma, cell lysates, and tissue culture supernatants
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure 5-methyl-2'-deoxy cytidine levels down to 3 ng/ml
- **Incubation:** 18 hours | **Development:** 90-120 minutes | **Read:** Colorimetric at 405-420 nm



- Measure major oxidative damage markers, 8-hydroxy 2'-deoxyguanosine, 8-hydroxyguanosine, and 8-hydroxyguanine in urine, cell culture medium, cell lysates, tissue samples, saliva, and plasma/serum samples
- Assay 24 samples in triplicate or 36 samples in duplicate
- **Assay Range:** 10.3-3,000 pg/ml
- **Incubation:** 18 hours | **Development:** 90-120 minutes | **Read:** Colorimetric at 405-420 nm

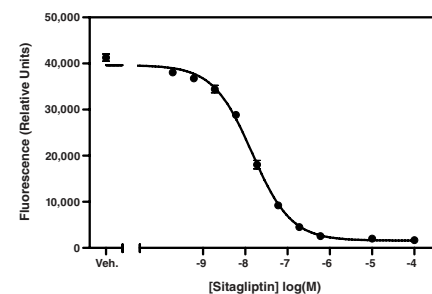


Also Available: 8-Hydroxyguanosine Monoclonal ELISA Kit Item No. 501130 (see page 35)

DPP (IV) Inhibitor Screening Assay Kit

700210

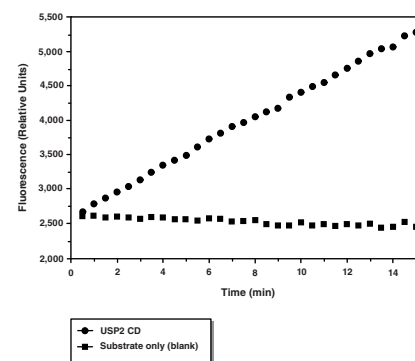
- Screen for dipeptidyl peptidase IV (DPP (IV)) inhibitors
- Assay 46 samples in duplicate
- Includes positive control inhibitor
- Plate-based, fluorometric measurement (ex 530-540 nm, em 585-595 nm)



DUB Activity Assay Kit

15981

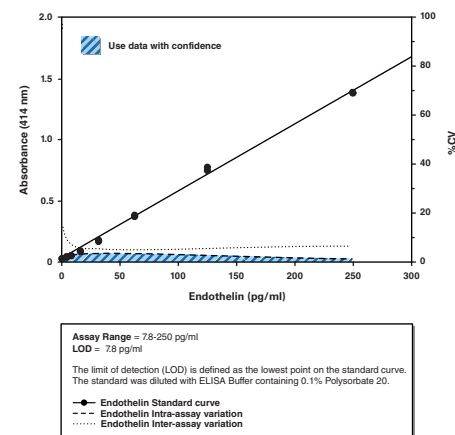
- Screen potential inhibitors and activators for activity against specific deubiquitinating enzymes (DUBs)
- Assess performance of DUBs of interest with ubiquitin-AMC substrate allowing relevant kinetic data to be generated
- Evaluate performance of DUB activators and inhibitors enabling relevant kinetic data to be determined
- Optimize assays for specific DUBs to facilitate their use in high-throughput screening
- Demonstrate novel, putative DUBs have ubiquitin-AMC processing activity



Endothelin ELISA Kit

583151

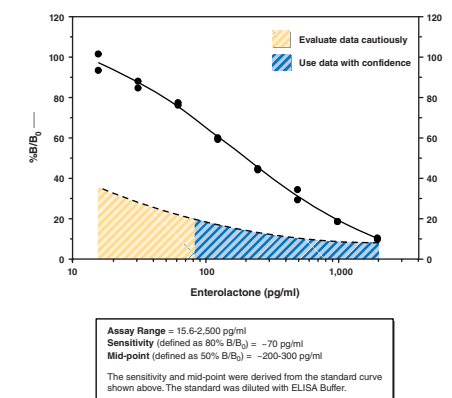
- Measure endothelin in serum, plasma, urine, or cell culture media
- Assay 24 samples in triplicate or 36 samples in duplicate
- **Assay Range:** 7.8-250 pg/ml with a LOD of 7.8 pg/ml
- **Incubation:** 18 hours | **Development:** 90-120 minutes | **Read:** Colorimetric at 405-420 nm



Enterolactone ELISA Kit

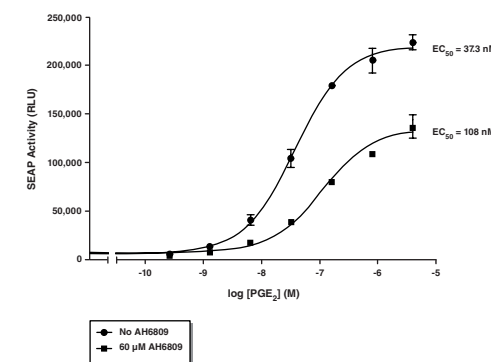
500520

- Measure enterolactone in plasma, urine, and other sample matrices
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure enterolactone levels down to 70 pg/ml
- **Incubation:** 18 hours at 4°C | **Development:** 90-120 minutes on an orbital shaker | **Read:** Colorimetric at 405-420 nm

EP₂ Receptor (rat) Reporter Assay Kit

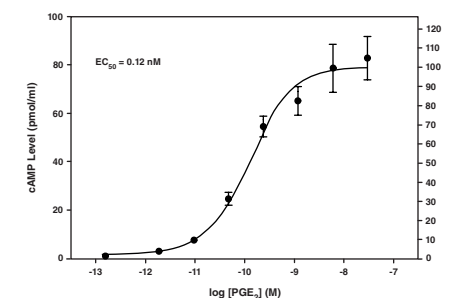
600340

- A 96-well plate coated with DNA encoding both the rat EP₂ receptor and a cAMP response element-regulated SEAP
- Cells grown on the complex will express both the rat EP₂ receptor and the SEAP reporter
- Binding of EP₂ receptor agonists induces expression of SEAP
- SEAP secreted into the supernatant cleaves a luminescence-based substrate

EP₄ Receptor (rat) Activation Assay Kit (cAMP)

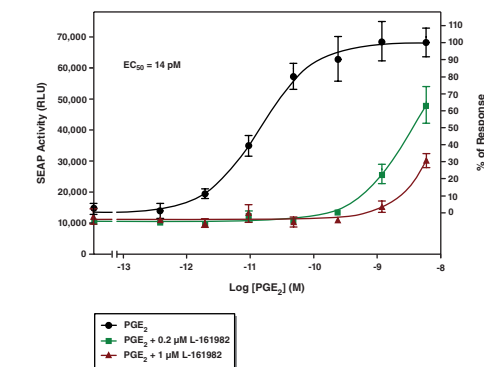
600410

- Reverse transfection reporter assay to screen for EP₄ receptor agonists
- Assay 18 samples in duplicate
- ELISA-based cAMP measurement
- Plate-based, colorimetric measurement (405-420 nm)

EP₄ Receptor (rat) Reporter Assay Kit

600350

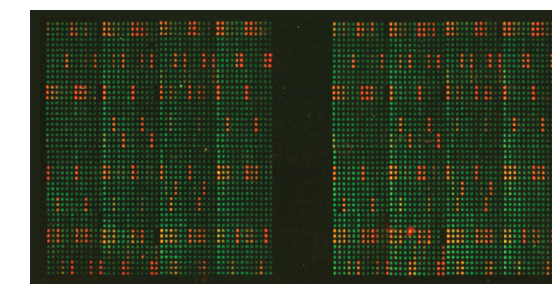
- A 96-well plate coated with DNA encoding both the rat EP₄ receptor and a cAMP response element-regulated SEAP
- Cells grown on the complex will express both the rat EP₄ receptor and the SEAP reporter
- Binding of EP₄ receptor agonists induces expression of SEAP
- SEAP secreted into the supernatant cleaves a luminescence-based substrate



EpiTitan™ Histone Peptide Array

17626

- Array covers over 95 unique modifications on the four core histones
- Perform multiple experiments per array
- Determine the specificity of histone binding proteins, the selectivity of histone antibodies and identify substrates for histone-modifying enzymes

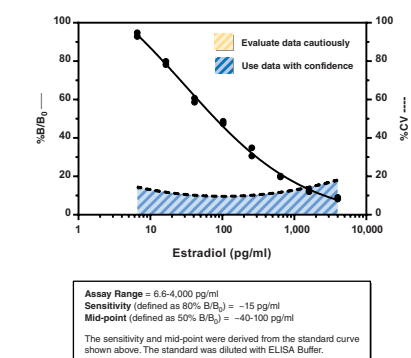


EpiTitan™ Histone Peptide Array.

Estradiol ELISA Kit

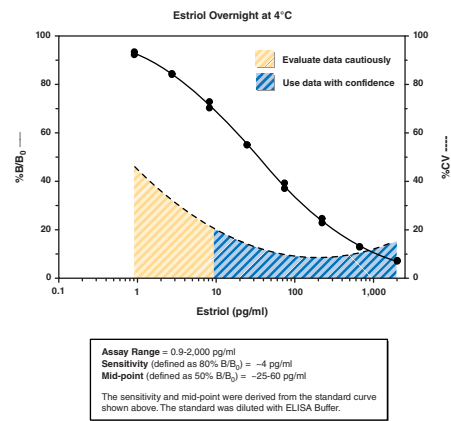
582251

- Measure estradiol (17β-estradiol) in cell culture medium, plasma, and serum
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure estradiol levels down to 15 pg/ml
- **Incubation:** 1 hour | **Development:** 60-90 minutes | **Read:** Colorimetric at 405-420 nm



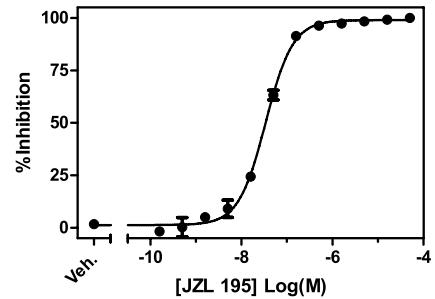
Estriol ELISA Kit 582281

- Measure estriol, a major estrogen produced during pregnancy, in plasma and other sample matrices
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure estriol levels down to 4 pg/ml
- **Incubation:** 18 hours | **Development:** 90-120 minutes | **Read:** Colorimetric at 405-420 nm



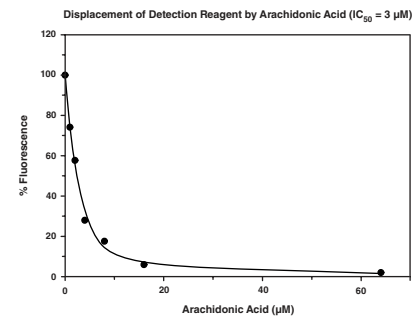
FAAH Inhibitor Screening Assay Kit 10005196

- Screen for inhibitors of fatty acid amide hydrolase (FAAH)
- Assay 45 samples in duplicate
- Includes JZL 195 positive control
- Plate-based, fluorometric measurement (ex 340-360 nm, em 450-465 nm)



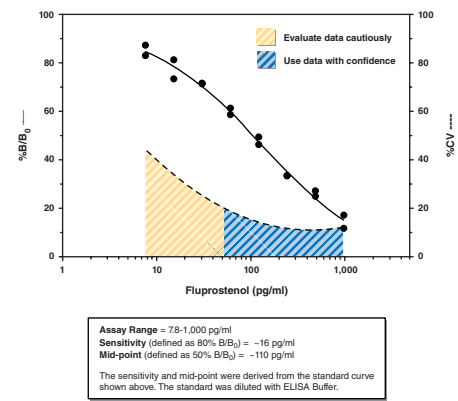
FABP4 Inhibitor/Ligand Screening Assay Kit 10010231

- Screen for fatty acid binding protein 4 (FABP4) ligands
- Includes arachidonic acid positive control
- Plate-based, fluorometric measurement (ex 370 nm, em 475 nm)



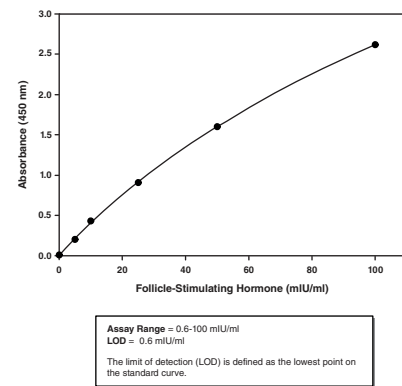
Fluprostenol ELISA Kit 516761

- Measure the free acid form of fluprostenol
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure fluprostenol levels down to 16 pg/ml
- **Incubation:** 18 hours | **Development:** 90-120 minutes | **Read:** Colorimetric at 405-420 nm



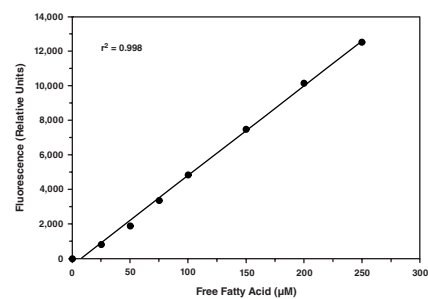
Follicle-Stimulating Hormone ELISA Kit 500710

- Measure follicle-stimulating hormone (FSH) in human serum
- Assay 27 samples in triplicate or 41 samples in duplicate
- **Assay Range:** 0.6-100 mIU/ml with an LOD of 0.6 mIU/ml
- Rapid assay; get results in under 2 hours



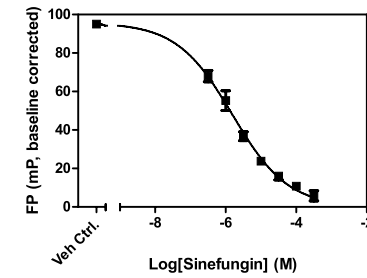
Free Fatty Acid Fluorometric Assay Kit 700310

- Measure free fatty acids (FFAs) in plasma, serum, and urine
- Assay 20 samples in duplicate
- Measure free fatty acids from 25 to 250 µM
- Plate-based, fluorometric measurement (ex 530-540 nm, em 585-595 nm)



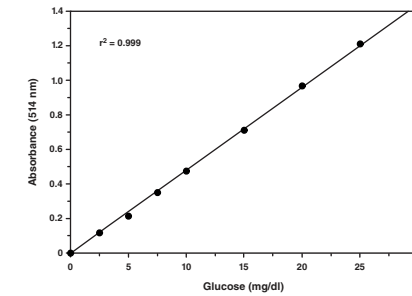
GLP SAM-Screener™ Assay Kit 600570

- Homogeneous, fluorescence polarization assay to screen for SAM-binding site inhibitors
- Designed for high-throughput screening
- Plate-based, fluorescence polarization measurement (ex 575 nm, em 620 nm)



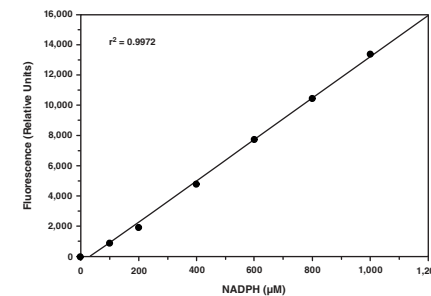
Glucose Colorimetric Assay Kit 10009582

- Measure glucose in plasma, serum, and urine
- Assay 40 samples in duplicate
- **Assay Range:** 2.5-25 mg/dl
- Plate-based, colorimetric measurement (500-520 nm)



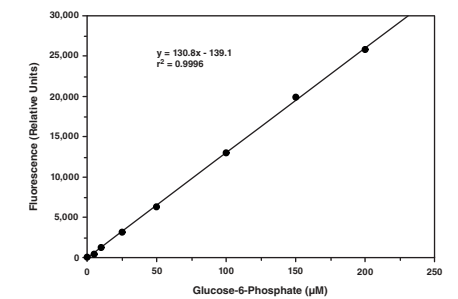
Glucose-6-Phosphate Dehydrogenase Activity Assay Kit 700300

- Measure glucose-6-phosphate dehydrogenase (G6PDH) activity in cell lysates and tissue homogenates
- Assay 20 samples in duplicate
- Measure G6PDH activity down to 5 U/ml
- Plate-based, fluorometric measurement (ex 530-540 nm, em 585-595 nm)



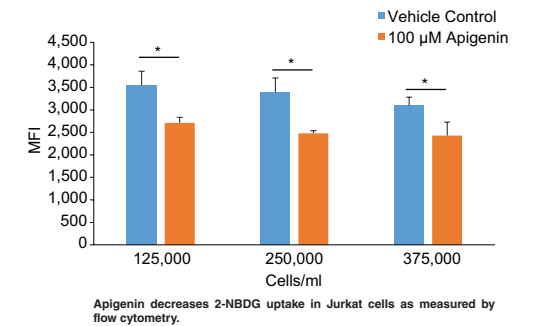
Glucose-6-Phosphate Fluorometric Assay Kit 700750

- Measure glucose-6-phosphate (G6P) in cell lysates and tissue homogenates
- Assay 20 samples in duplicate
- **Assay Range:** 5-200 µM
- Plate-based, fluorometric measurement (ex 530-540 nm, em 585-595 nm)



Glucose Uptake Cell-Based Assay Kit 600470

- Measure glucose uptake by cultured cells
- Employ 2-NBDG, a fluorescent deoxyglucose analog
- An inhibitor of glucose transport is included as a control
- Convenient tool for studying modulators of glucose uptake



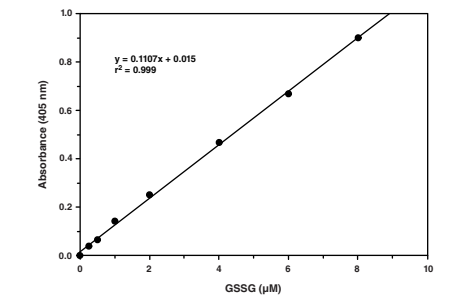
Glutaredoxin Fluorescent Activity Assay Kit 11536

- Convenient 96-well plate format
- Measure glutathione reductase activity in cell lysates and tissue homogenates
- Active human glutaredoxin 1 provided with kit



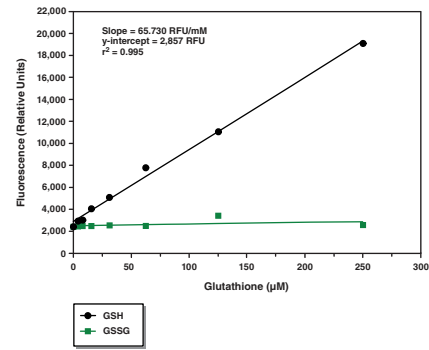
Glutathione Assay Kit 703002

- Measure total, oxidized glutathione (GSSG), and/or reduced glutathione (GSH) in cell lysates, tissue homogenates, plasma and erythrocyte lysates, and serum
- Assay 40 samples in duplicate
- **Assay Range:** 0.25-8 µM (GSSG) or 0.5-16 µM (GSH)



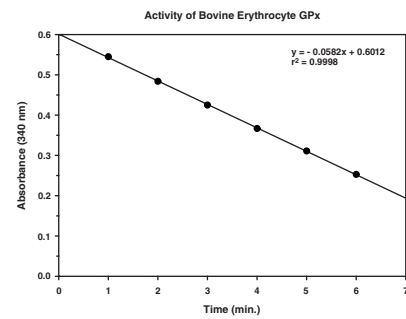
Glutathione Cell-Based Detection Kit (Blue Fluorescence) 600360

- Utilize monochlorobimane (MCB), a highly fluorescent glutathione (GSH) probe
- Includes a standard curve for accurate quantification of GSH from cell lysates
- Rapid assay; get results in 2 hours



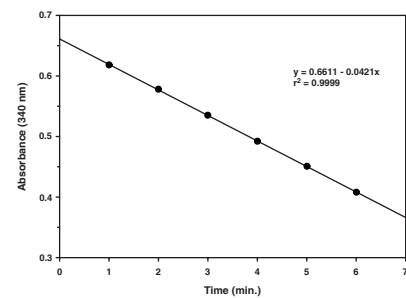
Glutathione Peroxidase Assay Kit 703102

- Measure glutathione peroxidase (GPx) in plasma, erythrocyte lysate, tissue homogenates, and cell lysates
- Assay 30 samples in triplicate or 45 samples in duplicate
- Measure GPx activity down to 50 U/ml



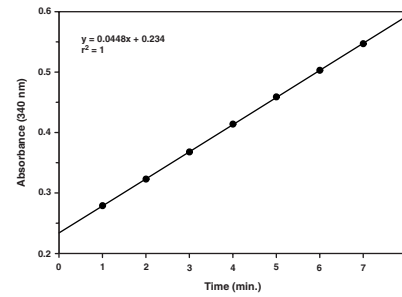
Glutathione Reductase Assay Kit 703202

- Measure glutathione reductase (GR) activity in plasma, cell lysates, and tissue homogenates
- Assay 45 samples in duplicate
- Measure GR activity down to 20 U/ml
- Plate-based colorimetric measurement (340 nm)



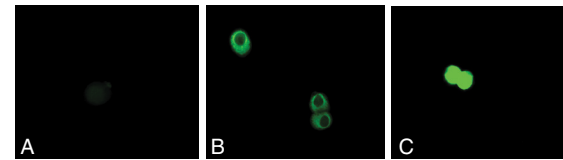
Glutathione S-Transferase Assay Kit 703302

- Measure glutathione S-transferase (GST) activity in plasma, tissue homogenates, and cell lysates
- Assay 22 samples in duplicate
- Measure GST activity down to 24 U/ml
- Plate-based, colorimetric measurement (340 nm)



S-Glutathionylated Protein Detection Kit 10010721

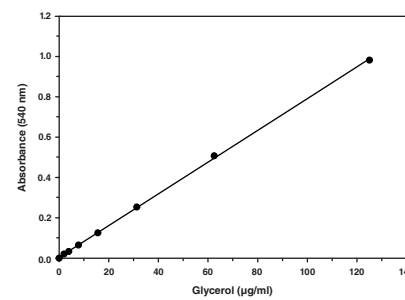
- Direct visualization of S-glutathionylated proteins in whole (permeabilized) cells by flow cytometry and microscopy
- Visualization using colorimetric or fluorescence detection
- Reagents provided to test up to 30 samples



Mouse monocytes – Fluorescence microscopy. Cells were stained with avidin-FITC using protocol supplied. Panel A: No reduction reagent. Panel B: Full protocol reveals S-glutathionylated proteins. Panel C: No free-thiol Blocking Reagent reveals labeling of all accessible protein thiols.

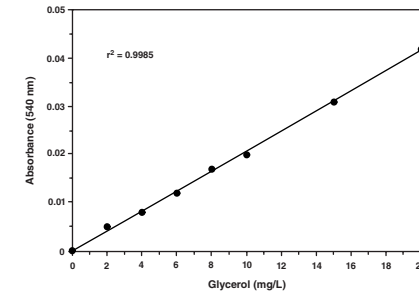
Glycerol Cell-Based Assay Kit 10011725

- Detect extracellular glycerol as a measure of the triglyceride/fatty acid cycling rate
- Measure glycerol by a coupled enzymatic reaction system that produces a brilliant purple product
- Includes a standard curve for accurate quantification of extracellular glycerol



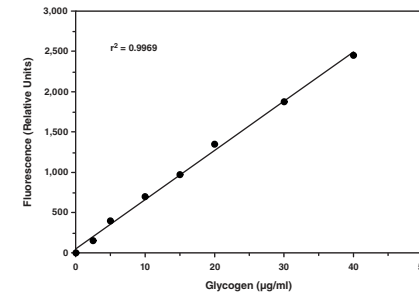
Glycerol Colorimetric Assay Kit 10010755

- Measure glycerol in plasma and serum
- Assay 40 samples in duplicate
- Assay Range: 2-20 mg/L
- Plate-based, colorimetric measurement (530-550 nm)



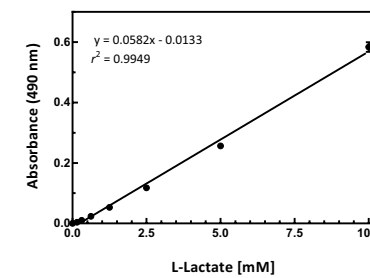
Glycogen Assay Kit 700480

- Measure glycogen from tissue samples
- Assay 20 samples in duplicate
- Assay Range: 2.5-40 µg/ml
- Plate-based, fluorometric measurement (ex 530-540 nm, em 585-595 nm)



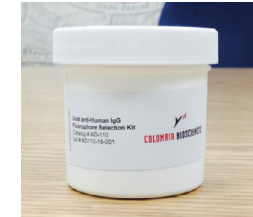
Glycolysis Cell-Based Assay Kit 600450

- Detect L-lactate, the end product of glycolysis
- Can be adapted to high-throughput screening
- Measure L-lactate in cell culture supernatant down to 156 µM



Goat Anti-Human Fluorophore Selection Kit 16541

- **Comprehensive:** Columbia Biosciences' fluorophore selection kits include the secondary antibody individually conjugated to seven unique fluorophores
- **Efficient:** The ability to evaluate the various labeled conjugates side-by-side allows scientists to rapidly optimize their reagents
- **Cost-effective:** Order one kit and get seven conjugated secondary antibodies. The fluorophore selection kit reduces costs associated with purchasing and shipping full-size antibody conjugates.



Goat Anti-Mouse Fluorophore Selection Kit 16542

- **Comprehensive:** Columbia Biosciences' fluorophore selection kits include the secondary antibody individually conjugated to seven unique fluorophores
- **Efficient:** The ability to evaluate the various labeled conjugates side-by-side allows scientists to rapidly optimize their reagents
- **Cost-effective:** Order one kit and get seven conjugated secondary antibodies. The fluorophore selection kit reduces costs associated with purchasing and shipping full-size antibody conjugates.



Goat Anti-Rabbit Fluorophore Selection Kit 16543

- **Comprehensive:** Columbia Biosciences' fluorophore selection kits include the secondary antibody individually conjugated to seven unique fluorophores
- **Efficient:** The ability to evaluate the various labeled conjugates side-by-side allows scientists to rapidly optimize their reagents
- **Cost-effective:** Order one kit and get seven conjugated secondary antibodies. The fluorophore selection kit reduces costs associated with purchasing and shipping full-size antibody conjugates.

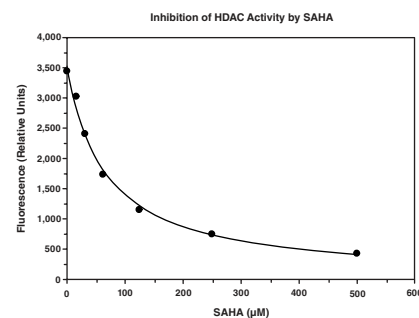


HAT Inhibitor Screening Assay Kit 10006515

- Screen for inhibitors of pCAF
- Assay 46 samples in duplicate
- Plate-based, fluorometric measurement (ex 360-390 nm, em 450-470 nm)

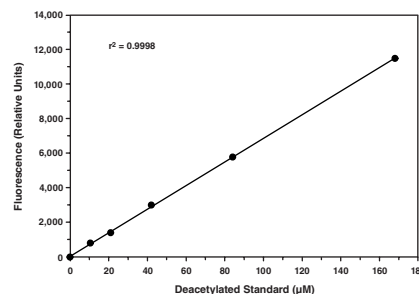
HDAC Cell-Based Activity Assay Kit 600150

- Screen for modulators of histone deacetylase (HDAC) activity in whole cells
- Includes trichostatin A as a positive control
- Plate-based, fluorometric measurement (ex 340-360 nm, em 440-460 nm)



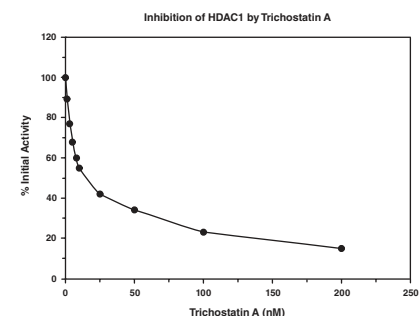
HDAC Fluorometric Activity Assay Kit 10011563

- Measure class I and class II histone deacetylase (HDAC) activity in nuclear extracts
- Assay 20 samples in duplicate
- Measure HDAC activity down to 7 U/ml
- Plate-based, fluorometric measurement (ex 340-360 nm, em 440-465 nm)



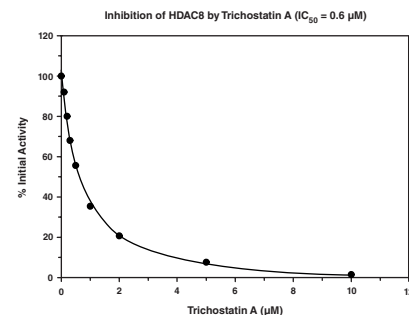
HDAC1 Inhibitor Screening Assay Kit 10011564

- Screen for inhibitors of histone deacetylase 1 (HDAC1)
- Assay 45 samples in duplicate
- Includes trichostatin A as a positive control
- Plate-based, fluorometric measurement (ex 340-360 nm, em 440-465 nm)



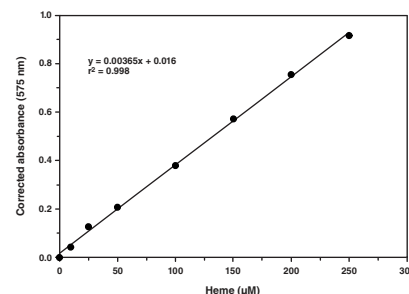
HDAC8 Inhibitor Screening Assay Kit 700230

- Screen for inhibitors of histone deacetylase 8 (HDAC8)
- Assay 45 samples in duplicate
- Includes trichostatin A as a positive control
- Plate-based, fluorometric measurement (ex 340-360 nm, em 440-465 nm)



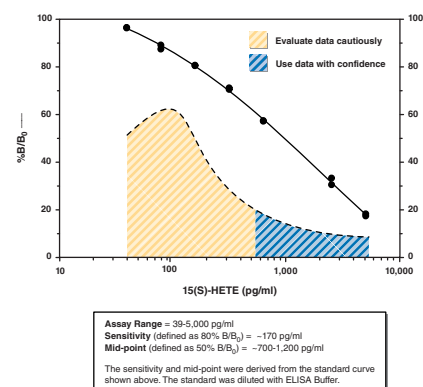
Hemoglobin Colorimetric Assay Kit 700540

- Measure total hemoglobin concentration in blood, tissue homogenates, and cell lysates
- Assay 40 samples in duplicate
- Assay Range: 0.016-0.4 g/dl
- Plate-based, colorimetric measurement (560-590 nm)



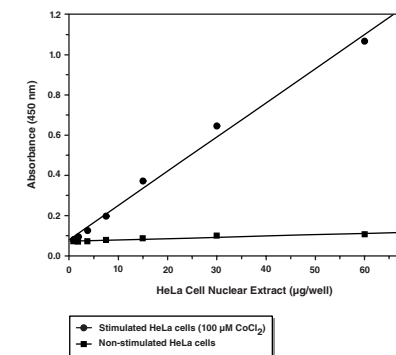
15(S)-HETE ELISA Kit 534721

- Detect 15(S)-HETE, a product of 15-lipoxygenase treatment of arachidonic acid
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure 15(S)-HETE levels down to 170 pg/ml
- Incubation: 18 hours | Development: 60-90 minutes | Read: Colorimetric at 405-420 nm



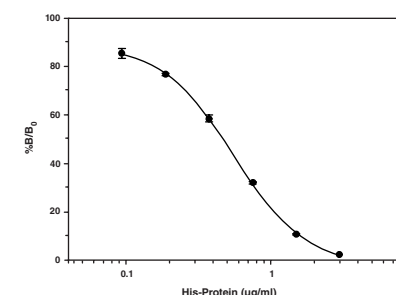
HIF-1α Transcription Factor Assay Kit 10006910

- A sensitive, non-radioactive method for detecting hypoxia inducible factor-1α (HIF-1α) from whole cell lysates
- 96-well plate format replaces electrophoretic mobility shift assays (EMSA)
- Capture the transcription factor using a specific dsDNA sequence bound to the plate
- Detect the dsDNA-bound transcription factor with specific antibodies in an ELISA format
- Nuclear Extraction Kit (Item No. 10009277) available to aid in the isolation of nuclear and cytoplasmic fractions from cell lysates or tissue homogenates



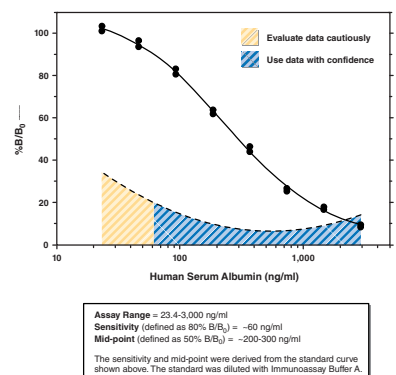
His-Tag Detection ELISA Kit 10012445

- A semi-quantitative screening assay to detect hexahistidine-tagged (His-tagged) proteins from cell lysates or affinity column fractions
- An alternative to SDS-PAGE for testing affinity column fractions
- Assay 26 samples in triplicate or 39 samples in duplicate
- Rapid assay; get results in under 3 hours



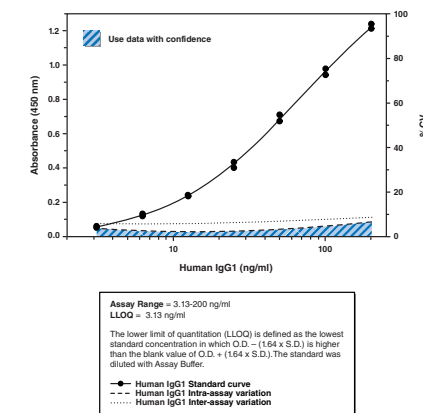
Human Serum Albumin ELISA Kit 500340

- Measure the presence of albumin in human urine, an indicator of renal function
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure albumin levels down to 60 ng/ml
- Rapid assay; get results in under 4 hours



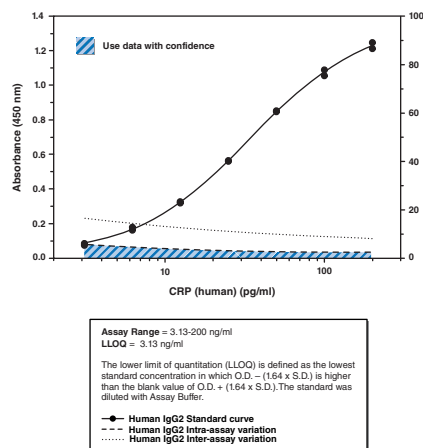
Human Therapeutic IgG1 ELISA Kit 500910

- Specifically detect human IgG1 antibodies in monkey plasma or serum
- Not cross reactive to rhesus or cynomolgus immunoglobulins
- Useful for pharmacokinetic analysis of therapeutic human IgG1 antibodies in monkeys
- Useful for detecting human IgG1 in mouse or rat plasma or serum



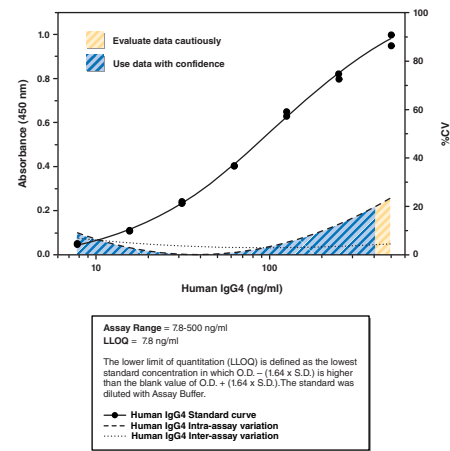
Human Therapeutic IgG2 ELISA Kit 500960

- Specifically detect human IgG2 antibodies in monkey plasma or serum
- Not cross reactive to rhesus or cynomolgus immunoglobulins
- Useful for pharmacokinetic analysis of therapeutic human IgG2 antibodies in monkeys
- Useful for detecting human IgG2 in mouse or rat plasma or serum



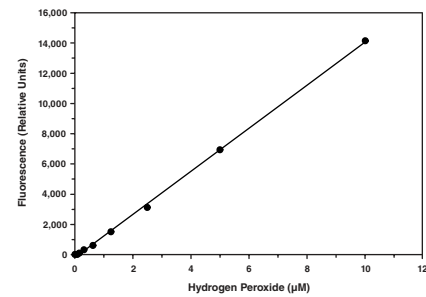
Human Therapeutic IgG4 ELISA Kit 500920

- Specifically detect human IgG4 antibodies in monkey plasma or serum
- Not cross reactive to rhesus or cynomolgus immunoglobulins
- Useful for pharmacokinetic analysis of therapeutic human IgG4 antibodies in monkeys
- Useful for detecting human IgG4 in mouse or rat plasma or serum



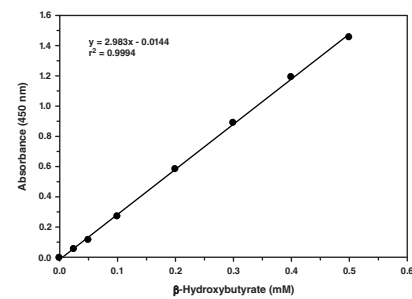
Hydrogen Peroxide Cell-Based Assay Kit 600050

- A simple fluorometric assay for the quantification of extracellular H₂O₂
- Utilize ADHP, a sensitive and stable probe for H₂O₂
- Catalase, an H₂O₂ scavenger, is included as a control for specificity
- Rapid assay; results in under 1 hour



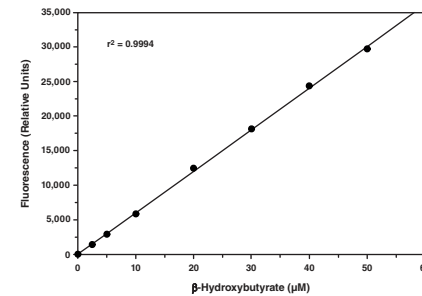
β-Hydroxybutyrate (Ketone Body) Colorimetric Assay Kit 700190

- Measure β-hydroxybutyrate (β-HB) from plasma, serum, urine, cell lysates, and tissue homogenates
- Assay 40 samples in duplicate
- Assay Range: 25-500 μM
- Plate-based colorimetric measurement (445-455 nm)



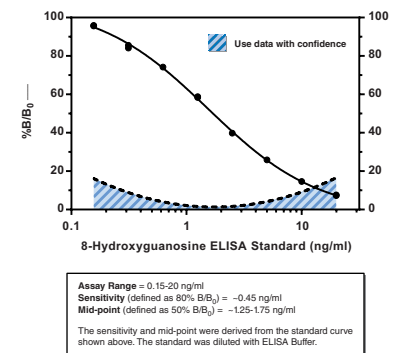
β-Hydroxybutyrate (Ketone Body) Fluorometric Assay Kit 700740

- Measure β-hydroxybutyrate (β-HB) from plasma, serum, urine, cell lysates, and tissue homogenates
- Assay 20 samples in duplicate
- Assay Range: 2.5-50 μM
- Plate-based fluorometric measurement (ex 530-540 nm, em 585-595 nm)



8-Hydroxyguanosine Monoclonal ELISA Kit 501130

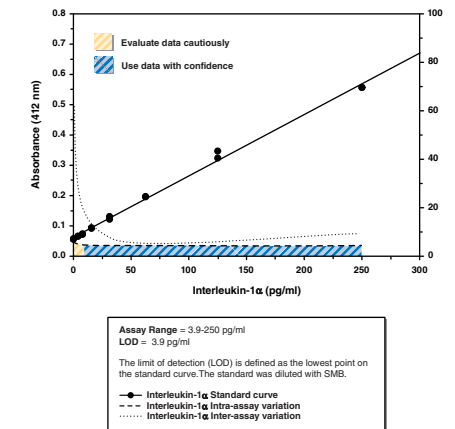
- Measure major oxidative damage markers, 8-hydroxy 2'-dexyguanosine and 8-hydroxyguanosine in urine and other sample matrices as verified by MS analysis
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure 8-hydroxyguanosine levels down to 0.45 ng/ml
- Incubation: 18 hours | Development: 90-120 minutes | Read: Colorimetric at 405-420 nm



Also Available: DNA/RNA Oxidative Damage ELISA Kit Item No. 589320 (see page 27)

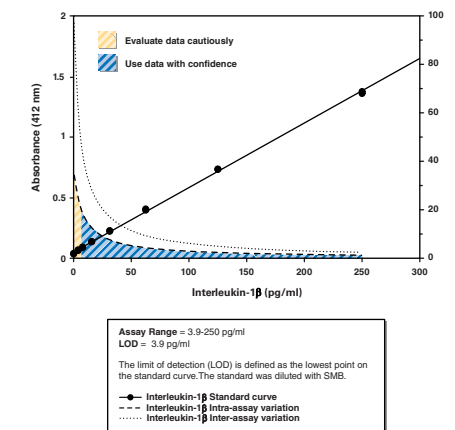
Interleukin-1α (human) ELISA Kit 583301

- Measure interleukin-1α (IL-1α) from human plasma, serum, synovial fluid, and other sample matrices
- Assay Range: 3.9-250 pg/ml with an LOD of 3.9 pg/ml
- Incubation: 18 hours | Development: 60-90 minutes | Read: Colorimetric at 405-420 nm



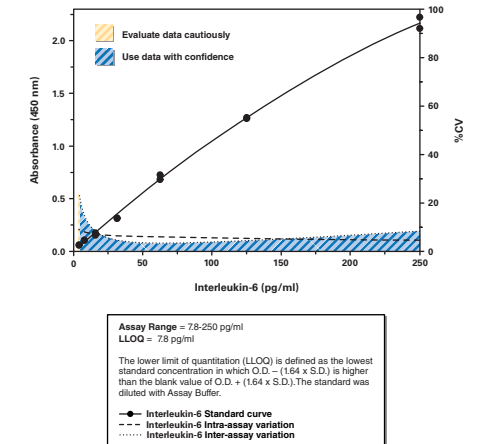
Interleukin-1β (human) ELISA Kit 583311

- Measure interleukin-1β (IL-1β) from human plasma, serum, synovial fluid, and other sample matrices
- Assay Range: 3.9-250 pg/ml with an LOD of 3.9 pg/ml
- Incubation: 18 hours | Development: 60-90 minutes | Read: Colorimetric at 405-420 nm



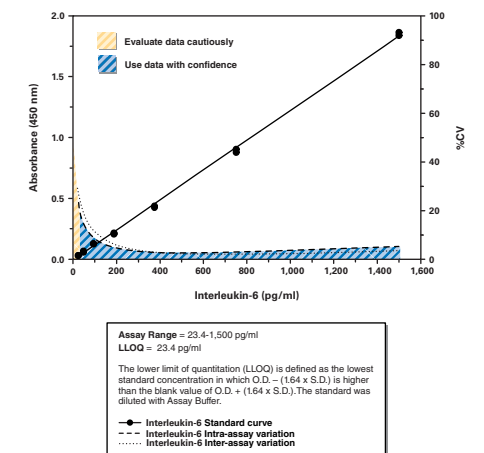
Interleukin-6 (human) ELISA Kit 501030

- Measure interleukin-6 (IL-6) from human plasma, serum, synovial fluid, and other sample matrices
- Assay Range: 7.8-250 pg/ml with an LLOQ of 7.8 pg/ml
- Rapid assay; get results in under 3 hours



Interleukin-6 (mouse) ELISA Kit 583371

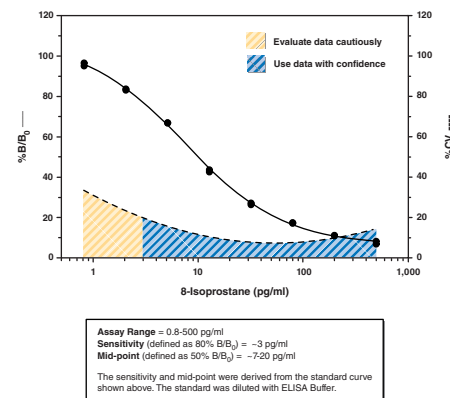
- Measure interleukin-6 (IL-6) from mouse plasma, serum, and other sample matrices
- Assay Range: 23.4-1,500 pg/ml with an LLOQ of 23.4 pg/ml
- Rapid assay; get results in under 3 hours



8-Isoprostane ELISA Kit

516351

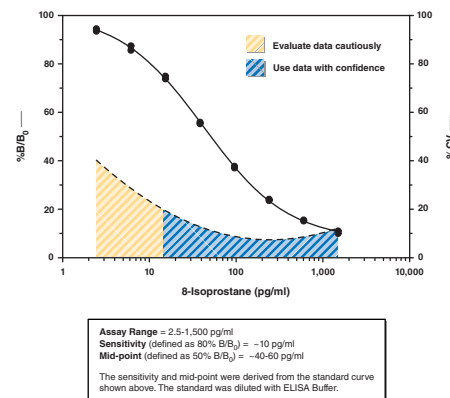
- Measure 8-isoprostane, a biomarker of oxidative stress and antioxidant deficiency
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure 8-isoprostane levels down to 3 pg/ml
- **Incubation:** 18 hours | **Development:** 90-120 minutes | **Read:** Colorimetric at 405-420 nm



8-Isoprostane Express ELISA Kit

516360

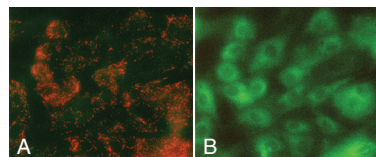
- Measure 8-isoprostane, a biomarker of oxidative stress and antioxidant deficiency
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure 8-isoprostane levels down to 10 pg/ml
- Rapid assay; get results in under 4 hours



JC-1 Mitochondrial Membrane Potential Assay Kit

10009172

- Measure mitochondrial membrane potential as an indicator of cell health
- Utilize JC-1, a fluorescent, lipophilic, cationic dye
- Red fluorescence indicates healthy mitochondria and green fluorescence indicates mitochondria in poor health
- Staining in less than 1 hour

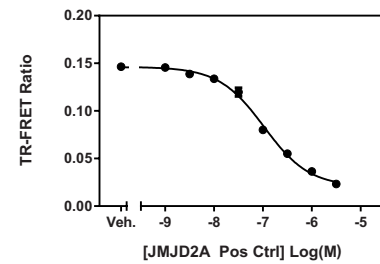


H9C2 cells stained with JC-1 followed by FCCP treatment. Panel A: Cells prior to FCCP treatment shows JC-1 J-aggregates (red) accumulated in the mitochondria. Panel B: Cells subsequent to FCCP treatment shows diffuse JC-1 J-monomers (green) in the mitochondria.

JMJD2A Tudor Domains TR-FRET Assay Kit

700960

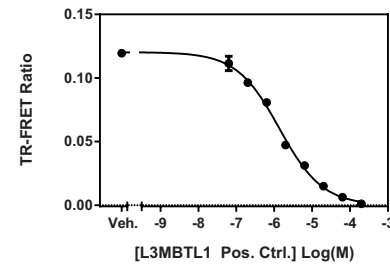
- Homogeneous, time-resolved fluorescence energy transfer (TR-FRET) assay to screen for inhibitors
- Designed for high-throughput screening
- Plate-based, time-resolved fluorometric measurement (ex 340 nm, em 620 and 670 nm)



L3MBTL1 MBT Domains TR-FRET Assay Kit

601030

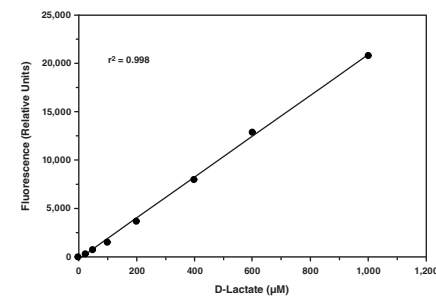
- Homogeneous, time-resolved fluorescence energy transfer (TR-FRET) assay to screen for inhibitors
- Designed for high-throughput screening
- Plate-based, time-resolved fluorometric measurement (ex 340 nm, em 620 and 670 nm)



D-Lactate Assay Kit

700520

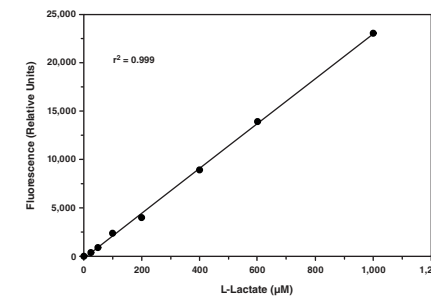
- Measure D-lactate in biological samples such as serum, plasma, whole blood, urine, saliva, and cell culture
- Assay 40 samples in duplicate
- **Assay Range:** 25 μM-1 mM
- Plate-based, fluorometric measurement (ex 530-540 nm, em 585-595 nm)



L-Lactate Assay Kit

700510

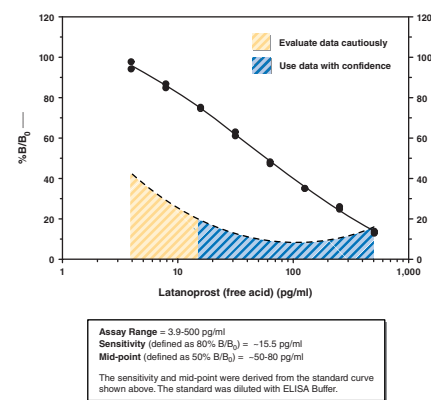
- Measure L-lactate in biological samples such as serum, plasma, whole blood, urine, saliva, and cell culture
- Assay 40 samples in duplicate
- **Assay Range:** 25 μM-1 mM
- Plate-based, fluorometric measurement (ex 530-540 nm, em 585-595 nm)



Latanoprost ELISA Kit

516811

- Measure the free acid form of latanoprost
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure latanoprost levels down to 15.5 pg/ml
- **Incubation:** 2 hours | **Development:** 60-90 minutes | **Read:** Colorimetric at 405-420 nm



LC3 Interact Kit

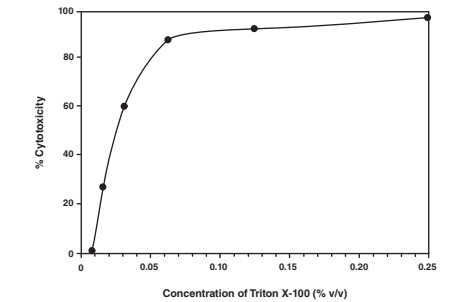
15977

- Capture and detect LC3/GABARAP binding and associated proteins from biological samples
- Determine LC3/GABARAP selectivity of specific interacting proteins *in vitro*
- Identify LC3/GABARAP binding and associated proteins by western blotting or proteomic analysis
- Investigate the role of specific LC3 isoforms in different autophagy processes

LDH Cytotoxicity Assay Kit

601170

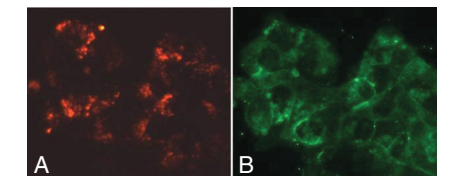
- A colorimetric, non-radioactive assay for assessing cell damage and lysis
- Lactate dehydrogenase (LDH) release from the cytosol into the medium catalyzes a color-forming reaction
- Detect lysis of 10,000-200,000 cells per well
- Alternative to ⁵¹Cr-release assays



LDL Uptake Cell-Based Assay Kit

10011125

- Measure low-density lipoprotein (LDL) uptake in cultured cells
- Designed for fluorescence microscopy
- Measure LDL at ex 540 nm, em 570 nm
- Measure LDL-receptor at ex 485 nm, em 535 nm

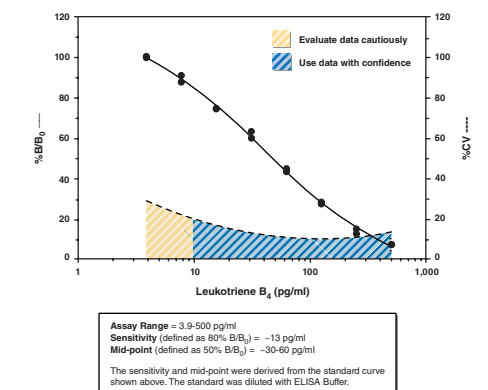


EGCG treatment of HepG2 cells stimulates uptake of LDL-DyLight™ 550. Panel A: LDL-DyLight™ 550 uptake is shown in red. Panel B: LDL receptor staining shown in green.

Leukotriene B₄ ELISA Kit

520111

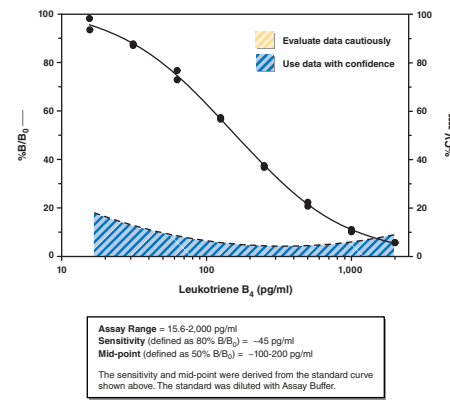
- Measure leukotriene B₄ (LTB₄) in plasma and other sample matrices
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure LTB₄ levels down to 13 pg/ml
- **Incubation:** 18 hours | **Development:** 90-120 minutes | **Read:** Colorimetric at 405-420 nm



Leukotriene B₄ Express ELISA Kit

10009292

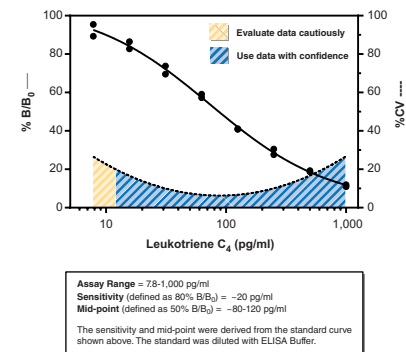
- Measure leukotriene B₄ (LTB₄) in plasma and other sample matrices
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure LTB₄ levels down to 45 pg/ml
- Rapid assay; get results in under 5 hours



Leukotriene C₄ ELISA Kit

501070

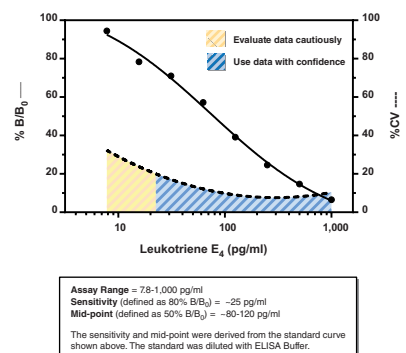
- Measure leukotriene C₄ (LTC₄) in tissue culture medium
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure LTC₄ levels down to 20 pg/ml
- Incubation: 18 hours | Development: 90-120 minutes | Read: Colorimetric at 405-420 nm



Leukotriene E₄ ELISA Kit

501060

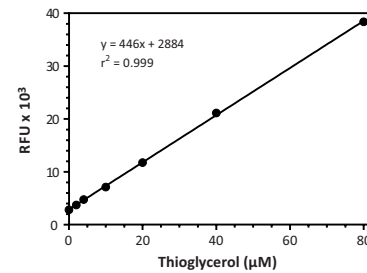
- Measure leukotriene E₄ (LTE₄) in urine, with no purification required
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure LTE₄ levels down to 25 pg/ml
- Incubation: 18 hours | Development: 90-120 minutes | Read: Colorimetric at 405-420 nm



Lipase Activity Assay Kit

700640

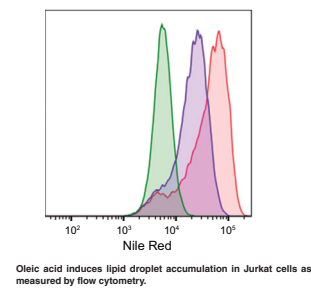
- Measure lipase activity in plasma, serum, tissue homogenates, and cell lysates
- Assay 20 samples in duplicate
- Measure lipase activity down to 0.1 U/ml
- Plate-based, fluorometric measurement (ex 380-390 nm, em 510-520 nm)



Lipid Droplets Fluorescence Assay Kit

500001

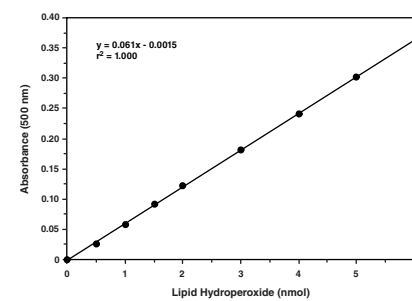
- Detect lipid droplets, cellular organelles that are also referred to as lipid bodies, oil bodies, or adiposomes
- Utilize Nile Red, a green fluorescent probe specific for lipid droplets
- Assess by fluorescence microscopy, flow cytometry, or plate reader
- Includes oleic acid as a positive control



Lipid Hydroperoxide (LPO) Assay Kit

705002

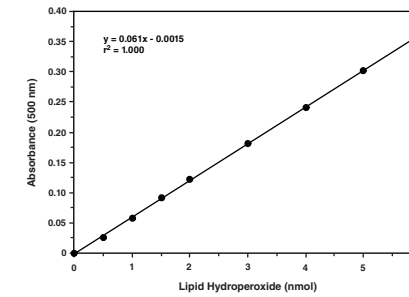
- Measure LPOs in samples
- Assay 40 samples in duplicate
- Assay Range: 0.25-5 nmol
- Plate-based, colorimetric measurement (500 nm)
- Requires reusable glass plate



Lipid Hydroperoxide (LPO) Assay Kit (96 well)

705003

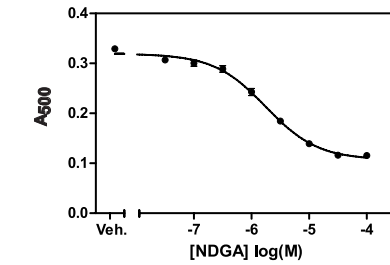
- Measure LPOs in samples
- Assay 40 samples in duplicate
- Assay Range: 0.25-5 nmol
- Plate-based, colorimetric measurement (500 nm)
- Includes reusable glass plate



Lipoxygenase Inhibitor Screening Assay Kit

760700

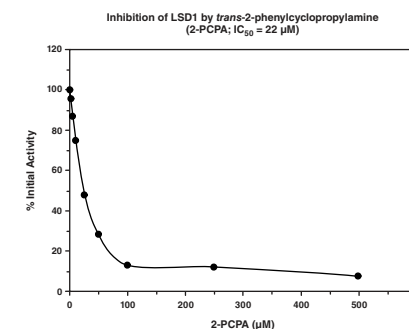
- Screen for inhibitors of purified 5-, 12-, or 15-lipoxygenase (LO)
- Includes 15-LO
- Measure the hydroperoxides generated from LOs
- Plate-based, colorimetric measurement (490-500 nm)



LSD1 Inhibitor Screening Assay Kit

700120

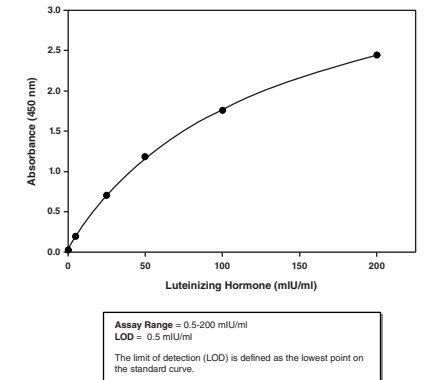
- Screen for inhibitors of lysine-specific demethylase 1 (LSD1)
- Measure the H₂O₂ produced during demethylation
- Assay 45 samples in duplicate
- Plate-based, fluorometric measurement (ex 530-540 nm, em 585-595 nm)



Luteinizing Hormone ELISA Kit

500720

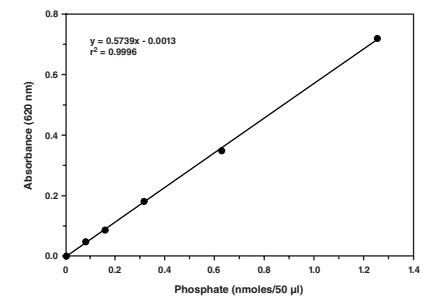
- Measure luteinizing hormone (LH) in human serum
- Assay 27 samples in triplicate or 41 samples in duplicate
- Assay Range: 0.5-200 mIU/ml with an LOD of 0.5 mIU/ml
- Rapid assay; get results in under 2 hours



Malachite Green Phosphate Assay Kit

10009325

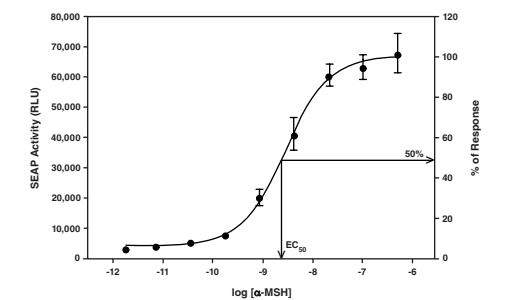
- Measure inorganic free phosphate in aqueous solutions
- Assay 42 samples in duplicate
- Assay Range: 1.6-25 µM
- Plate-based, colorimetric measurement (620-640 nm)



Melanocortin-3 Receptor Reporter Assay Kit

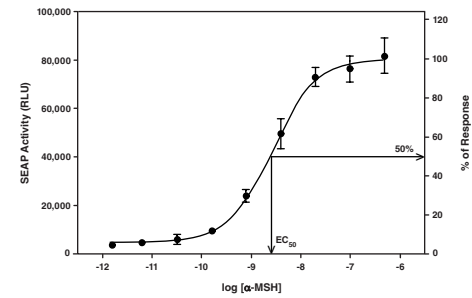
600180

- Reverse transfection reporter assay to screen for melanocortin-3 receptor (MC3R) agonists
- Assay 46 samples in duplicate
- Includes α-MSH positive control
- Plate-based, luminometric measurement



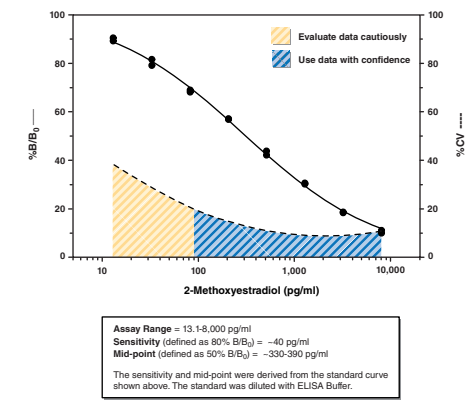
Melanocortin-4 Receptor Reporter Assay Kit 600190

- Reverse transfection reporter assay to screen for melanocortin-4 receptor (MC4R) agonists
- Assay 46 samples in duplicate
- Includes α -MSH positive control
- Plate-based, luminometric measurement



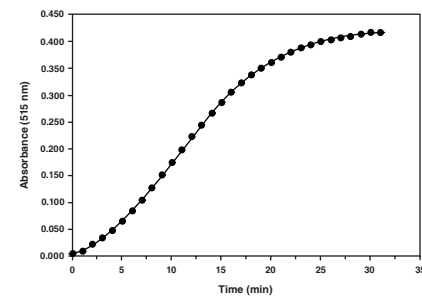
2-Methoxyestradiol ELISA Kit 582261

- Detect 2-methoxyestradiol (2-ME2)
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure 2-ME2 levels down to 40 pg/ml
- Incubation:** 18 hours | **Development:** 90-120 minutes | **Read:** Colorimetric at 405-420 nm



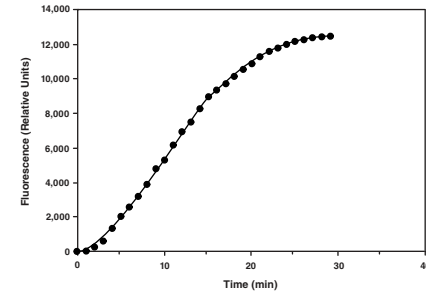
Methyltransferase Colorimetric Assay Kit 700140

- Continuous assay to monitor SAM-dependent methyltransferases
- Assay 45 samples in duplicate
- Plate-based, colorimetric measurement (500-520 nm)



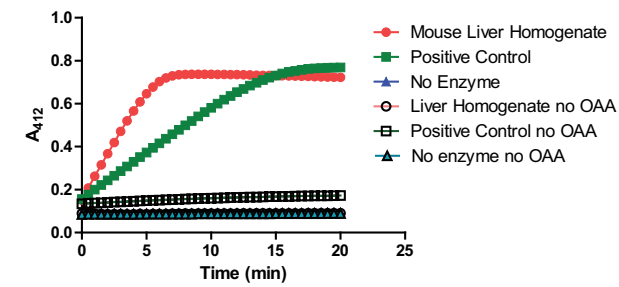
Methyltransferase Fluorometric Assay Kit 700150

- Continuous assay to monitor SAM-dependent methyltransferases
- Assay 36 samples in duplicate
- Plate-based, fluorometric measurement (ex 530-540 nm, em 585-595 nm)



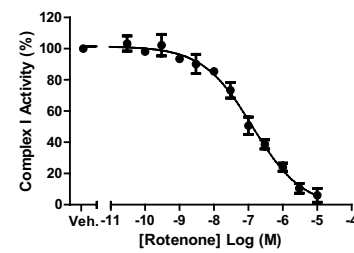
MitoCheck® Citrate Synthase Activity Assay Kit 701040

- Measure citrate synthase activity in isolated mitochondria, tissue and cell homogenate
- Assess mitochondrial content
- Suitable for high-throughput screening
- Plate-based, colorimetric measurement (412 nm)
- MitoCheck® Mitochondrial (Tissue) Isolation Kit (Item No. 701010) available to aid in mitochondrial tissue isolation



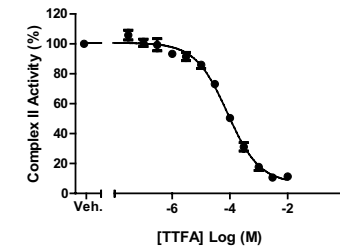
MitoCheck® Complex I Activity Assay Kit 700930

- Measure complex I activity in isolated mitochondria
- Useful for screening compounds for complex I inhibition
- Suitable for high-throughput screening
- Plate-based, colorimetric measurement (340 nm)
- MitoCheck® Mitochondrial (Tissue) Isolation Kit (Item No. 701010) available to aid in mitochondrial tissue isolation



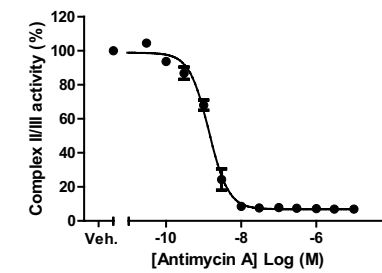
MitoCheck® Complex II Activity Assay Kit 700940

- Measure complex II activity in isolated mitochondria
- Useful for screening compounds for complex II inhibition
- Suitable for high-throughput screening
- Plate-based, colorimetric measurement (600 nm)
- MitoCheck® Mitochondrial (Tissue) Isolation Kit (Item No. 701010) available to aid in mitochondrial tissue isolation



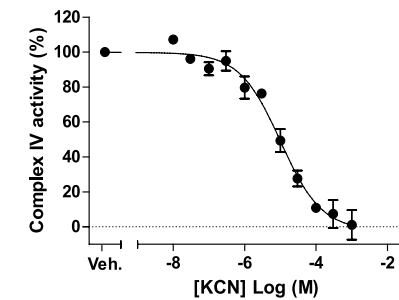
MitoCheck® Complex II/III Activity Assay Kit 700950

- Measure complex II/III activity in isolated mitochondria
- Useful for screening compounds for complex II/III inhibition
- Suitable for high-throughput screening
- Plate-based, colorimetric measurement (550 nm)
- MitoCheck® Mitochondrial (Tissue) Isolation Kit (Item No. 701010) available to aid in mitochondrial tissue isolation



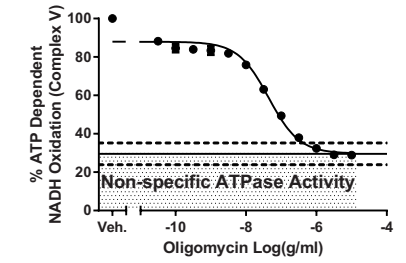
MitoCheck® Complex IV Activity Assay Kit 700990

- Measure complex IV activity in isolated mitochondria
- Useful for screening compounds for complex IV inhibition
- Suitable for high-throughput screening
- Plate-based, colorimetric measurement (550 nm)
- MitoCheck® Mitochondrial (Tissue) Isolation Kit (Item No. 701010) available to aid in mitochondrial tissue isolation



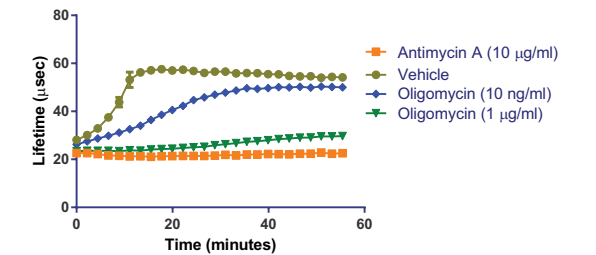
MitoCheck® Complex V Activity Assay Kit 701000

- Measure complex V activity in isolated mitochondria
- Useful for screening compounds for complex V inhibition
- Suitable for high-throughput screening
- Plate-based, colorimetric measurement (340 nm)
- MitoCheck® Mitochondrial (Tissue) Isolation Kit (Item No. 701010) available to aid in mitochondrial tissue isolation



MitoCheck® Mitochondrial OCR Assay Kit 701170

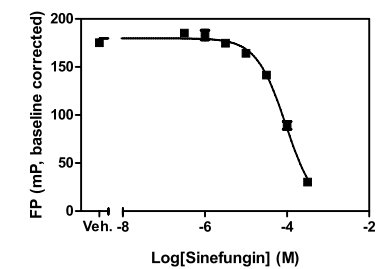
- Measure oxygen consumption rate (OCR) directly in freshly isolated mitochondria
- Useful for screening mitochondrial inhibitors and uncouplers
- Suitable for high-throughput screening
- Plate-based, fluorometric or time-resolved, fluorometric measurement (ex 380 nm, em 650 nm)
- MitoCheck® Mitochondrial (Tissue) Isolation Kit (Item No. 701010) available to aid in mitochondrial tissue isolation



Sample Data. Oxygen consumption is measured in isolated mouse liver mitochondria (0.12 mg/ml) in the presence of the complex V inhibitor oligomycin (1 µg/ml, 10 ng/ml), the complex III inhibitor antimycin A (10 µM) and vehicle control. The difference in oxygen consumption rates in the absence and presence of oligomycin indicate that these mitochondria are coupled.

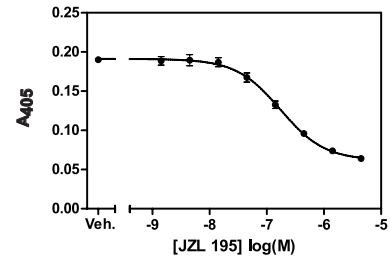
MLL1 SAM-Screener™ Assay Kit 600580

- Homogeneous, fluorescence polarization assay to screen for SAM-binding site inhibitors
- Designed for high-throughput screening
- Plate-based, fluorescence polarization measurement (ex 575 nm, em 620 nm)



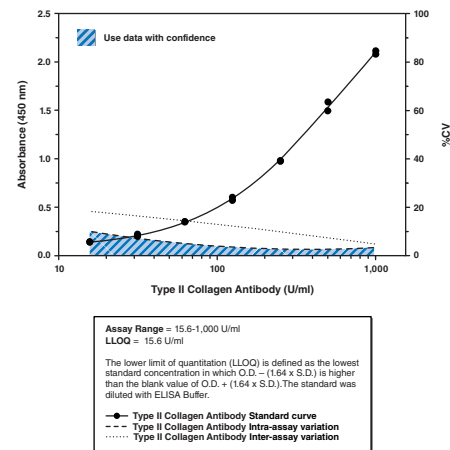
Monoacylglycerol Lipase Inhibitor Screening Assay Kit 705192

- Screen for inhibitors of monoacylglycerol lipase (MAGL)
- Assay 45 samples in duplicate
- Includes JZL 195 as a positive control
- Plate-based, colorimetric measurement (405-415 nm)



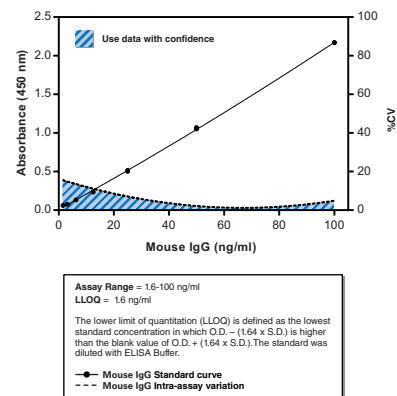
Mouse Anti-Type II Collagen IgG Assay Kit (bovine) 500410

- Measure mouse anti-bovine type II collagen (anti-CII) IgG in mouse plasma or serum
- Employ an affinity-purified anti-CII polyclonal antibody standard isolated from mice with collagen-induced arthritis
- **Assay Range:** 15.6-1,000 U/ml with an LLOQ of 15.6 U/ml
- Rapid assay; get results in under 4 hours



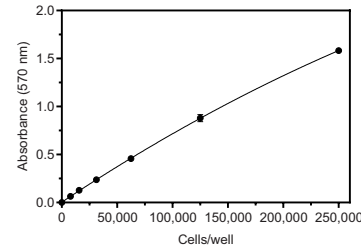
Mouse IgG ELISA Kit 501240

- Measure total mouse IgG from plasma, serum, ascites, and cell culture supernatant
- Convenient 96-well plate format
- Measure mouse IgG down to 1.6 ng/ml
- Get accurate results in under 3 hours



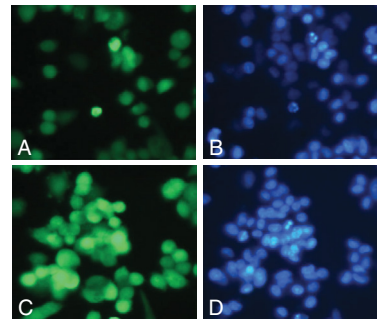
MTT Cell Proliferation Assay Kit 10009365

- A colorimetric, non-radioactive assay for assessing cell viability and proliferation
- MTT is reduced to insoluble, purple formazan by NAD(P)H-oxidoreductases in living cells
- Detect 10,000-250,000 cells per well



Multi-Drug Resistance Assay Kit (Calcein AM) 600370

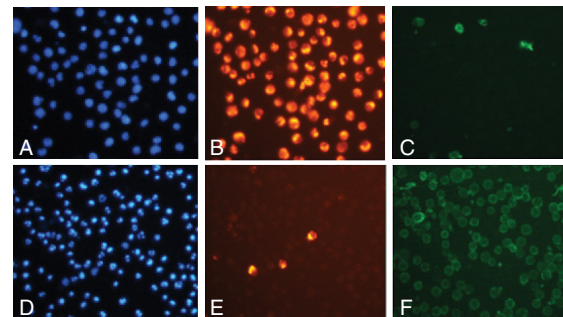
- A non-radioactive assay for multi-drug resistance associated protein (MRP) function in living cells
- Employ calcein AM, a substrate for multidrug resistance proteins, including P-gp and MRP
- Cyclosporin A and verapamil are included as positive controls of MDR inhibition
- Assess by flow cytometry, fluorescence microscopy, or plate reader



Cyclosporin inhibits MDR export of calcein AM. Panel A: Calcein AM staining of MES-SA/Dx5 cells treated with vehicle. Panel B: Hoechst Dye staining of MES-SA/Dx5 cells corresponding to those in Panel A. Panel C: Calcein AM staining of MES-SA/Dx5 cells treated with 20 μM Cyclosporin A. Panel D: Hoechst Dye staining of MES-SA/Dx5 cells corresponding to those in Panel C.

Multi-Parameter Apoptosis Assay Kit 600330

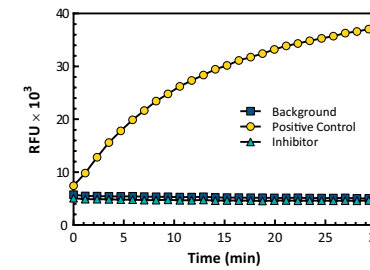
- Four different reagents for monitoring distinct events in apoptosis
- Contains Annexin V, TMRE, 7-AAD, and Hoechst Dye
- Sufficient reagents to analyze 100 samples for flow cytometry or 500 samples in a 96-well plate format
- 1 hour staining protocol



Staurosporine induced apoptosis in Jurkat cells. Jurkat cells treated with vehicle (control) or 2.5 μg/ml staurosporine (treatment) were stained with Hoechst Dye, TMRE or Annexin V FITC. Panels A-C: Control group. Panels D-F: Staurosporine-treated group. Panels A and D: Hoechst staining. Panels B and E: TMRE staining. Panels C and F: Annexin V FITC staining.

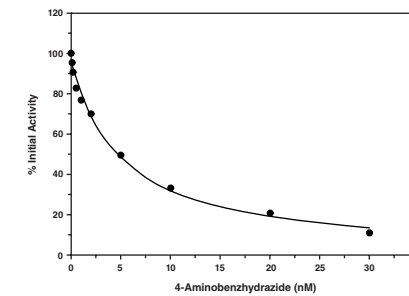
Myeloperoxidase Chlorination Fluorometric Assay Kit 10006438

- Measure myeloperoxidase (MPO) chlorination activity in cell lysates and purified preparations
- Assay 37 samples in duplicate
- Plate-based fluorometric measurement (ex 480-495 nm, em 515-525 nm)



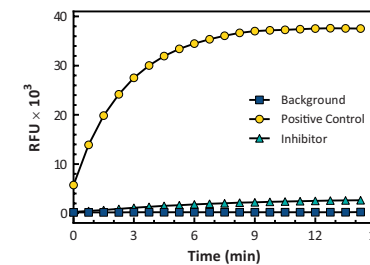
Myeloperoxidase Inhibitor Screening Assay Kit 700170

- Screen for inhibitors of myeloperoxidase (MPO)
- Includes reagents to measure both the chlorination and peroxidation activities
- Assay 45 samples in duplicate
- Plate-based, fluorometric measurement (ex 480-495 nm, em 515-525 nm, ex 530-540 nm, em 585-595 nm)



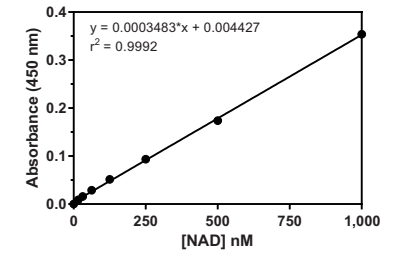
Myeloperoxidase Peroxidation Fluorometric Assay Kit 700160

- Measure myeloperoxidase (MPO) peroxidase activity in cell lysates and purified preparations
- Assay 37 samples in duplicate
- Plate-based, fluorometric measurement (ex 530-540 nm, em 585-595 nm)



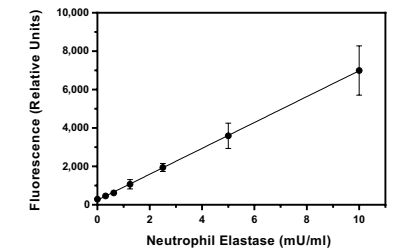
NAD/NADH Cell-Based Assay Kit 600480

- Utilize cellular nicotinamide adenine dinucleotide (NAD⁺) as a cofactor in a chromogenic enzymatic reaction
- A NAD⁺ standard curve allows for accurate quantification of cellular NAD levels
- Rapid assay; get results in under 2 hours



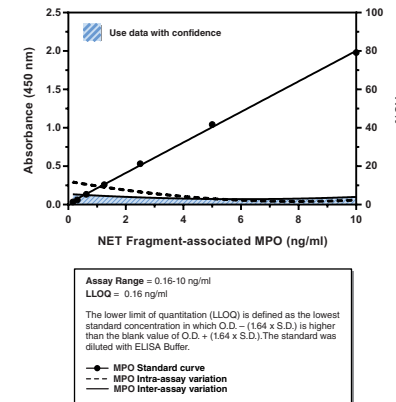
Neutrophil Elastase Activity Assay Kit 600610

- Neutrophils isolated from whole blood (protocol included)
- Measure neutrophil elastase released by neutrophils after various experimental conditions
- Employ the specific elastase substrate (Z-Ala-Ala-Ala-Ala)2Rh110
- Includes reagents to isolate neutrophils from whole blood and PMA to stimulate elastase release
- Assay performed in provided black 96-well plates
- Neutrophil (mouse) Isolation Kit (Item No. 601070) available to isolate mouse neutrophils from peritoneal lavage or bone marrow



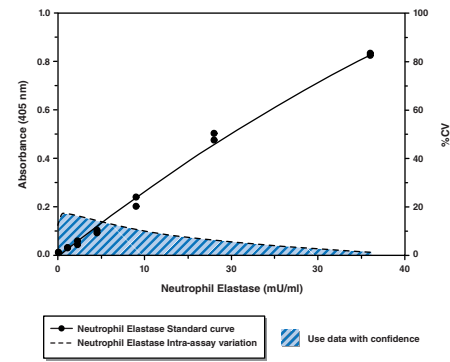
Neutrophil Extracellular Trap (MPO-Histone) ELISA Kit 501340

- Detect fragments of neutrophil extracellular traps (NETs) that remain after incomplete digestion and clearance from human samples
- A sandwich ELISA using antibodies specific for MPO and citrullinated histone H3
- Quantitative; results are expressed in ng/ml of NET-associated MPO



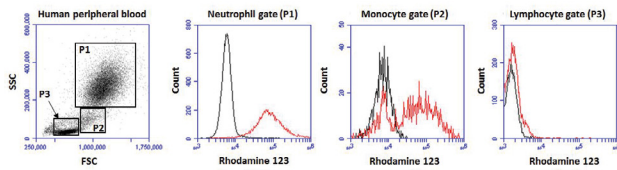
Neutrophil Extracellular Trap (NET) Assay Kit 601010

- Induce and detect NET formation *in vivo*
- Elastase-based readout
- Non-dsDNA readout eliminates false positives from DNA
- Adaptable to multiple species
- Neutrophil (mouse) Isolation Kit (Item No. 601070) available to isolate mouse neutrophils from peritoneal lavage or bone marrow



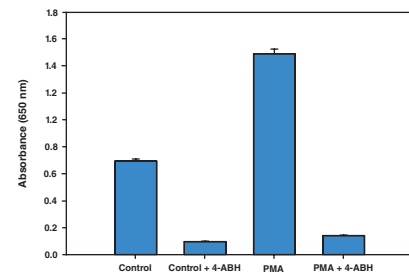
Neutrophil/Monocyte Respiratory Burst Assay Kit 601130

- Samples include whole blood from any species or cells of any type that are capable of producing a nicotinamide adenine dinucleotide, reduced (NADPH) oxidase-dependent respiratory burst
- Induce and quantify a respiratory burst response
- Analyze by flow cytometry



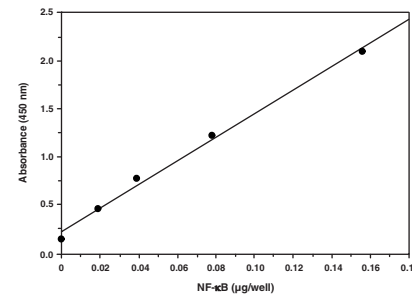
Neutrophil Myeloperoxidase Activity Assay Kit 600620

- Assay the release of enzymatically-active myeloperoxidase (MPO) from activated phagocytes
- Utilize TMB as a chromogenic substrate for MPO
- Includes a specific inhibitor of MPO function to verify specificity
- Includes reagents needed to isolate neutrophils from human whole blood



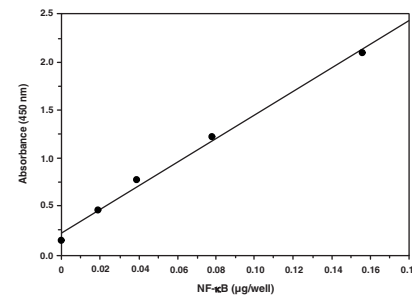
NF-κB (human p50) Transcription Factor Assay Kit 10006912

- A sensitive, non-radioactive method of detecting NF-κB (p50) from whole cell lysates
- 96-well plate format replaces electrophoretic mobility shift assays (EMSAs)
- Capture the transcription factor using a specific dsDNA sequence bound to the plate
- Detect the dsDNA-bound transcription factor with specific antibodies in an ELISA format
- Nuclear Extraction Kit (Item No. 10009277) available to aid in the isolation of nuclear and cytoplasmic fractions from cell lysates or tissue homogenates



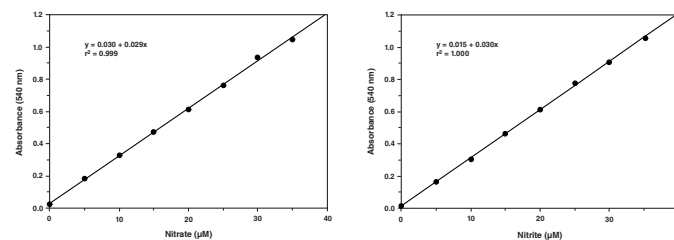
NF-κB (p65) Transcription Factor Assay Kit 10007889

- A sensitive, non-radioactive method of detecting NF-κB (p65) from whole cell lysates
- 96-well plate format replaces electrophoretic mobility shift assays (EMSAs)
- Capture the transcription factor using a specific dsDNA sequence bound to the plate
- Detect the dsDNA-bound transcription factor with specific antibodies in an ELISA format
- Nuclear Extraction Kit (Item No. 10009277) available to aid in the isolation of nuclear and cytoplasmic fractions from cell lysates or tissue homogenates



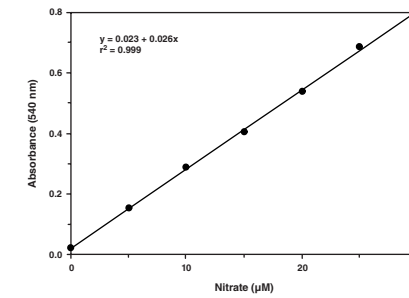
Nitrate/Nitrite Colorimetric Assay Kit 780001

- Measure nitrate, nitrite, and/or total nitrate/nitrites in plasma/serum, urine, tissue culture media, and tissue homogenates
- Assay 26 samples in triplicate or 40 samples in duplicate/96-well plate



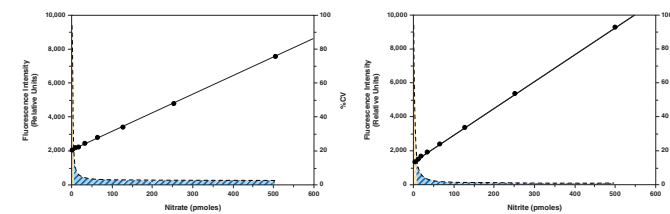
Nitrate/Nitrite Colorimetric Assay Kit (LDH method) 760871

- Designed to measure nitric oxide synthase (NOS) activity *in vitro*
- Can also be used to measure nitrate and nitrite in urine, plasma, serum, and tissue homogenates
- Assay 41 samples in duplicate
- **Assay Range:** 5-25 µM (nitrate and/or nitrite)
- Plate-based, colorimetric measurement (530-550 nm)



Nitrate/Nitrite Fluorometric Assay Kit 780051

- Measure nitrate, nitrite, and/or total nitrate/nitrites in plasma, serum, tissue culture media, and tissue homogenates
- Assay 40 samples in duplicate/96-well plate
- **Assay Range:** 60 nM-3.85 µM (nitrate and/or nitrite)
- Plate-based, fluorometric measurement (ex 360-365 nm, em 430 nm)



S-Nitrosylated Protein Detection Kit 10006518

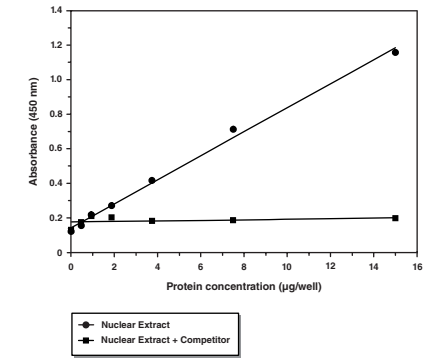
- A modified 'Biotin-switch' assay
- Direct visualization of S-nitrosylated (S-NO) proteins in whole cells or tissues
- Colorimetric or fluorometric detection

NOS Activity Assay Kit 781001

- Measure nitric oxide synthase (NOS) activity in cell lysates and purified preparations
- Material for 50 reactions
- Radioactive substrate not supplied

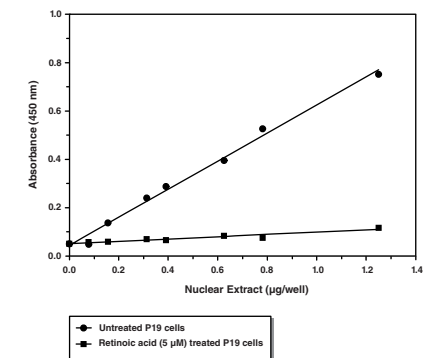
Nrf2 Transcription Factor Assay Kit 600590

- A sensitive, non-radioactive method of detecting nuclear factor E2-related factor 2 (Nrf2) from whole cell lysates
- 96-well plate format replaces electrophoretic mobility shift assays (EMSAs)
- Capture the transcription factor using a specific dsDNA sequence bound to the plate
- Detect the dsDNA-bound transcription factor with specific antibodies in an ELISA format
- Nuclear Extraction Kit (Item No. 10009277) available to aid in the isolation of nuclear and cytoplasmic fractions from cell lysates or tissue homogenates



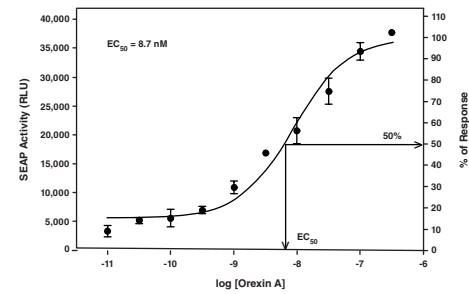
Oct4 Transcription Factor Assay Kit 601080

- A sensitive, non-radioactive method of detecting Oct4 from whole cell lysates
- 96-well plate format replaces electrophoretic mobility shift assays (EMSAs)
- Capture the transcription factor using a specific dsDNA sequence bound to the plate
- Detect the dsDNA-bound transcription factor with specific antibodies in an ELISA format
- Nuclear Extraction Kit (Item No. 10009277) available to aid in the isolation of nuclear and cytoplasmic fractions from cell lysates or tissue homogenates



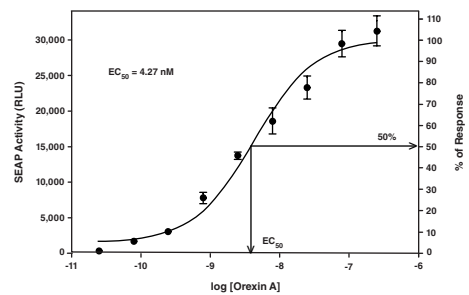
Orexin 1 Receptor Reporter Assay Kit 600240

- Reverse transfection reporter assay to screen for orexin 1 receptor (OX1R) agonists
- Assay 46 samples in duplicate
- Includes orexin A as a positive control
- Plate-based, luminometric measurement



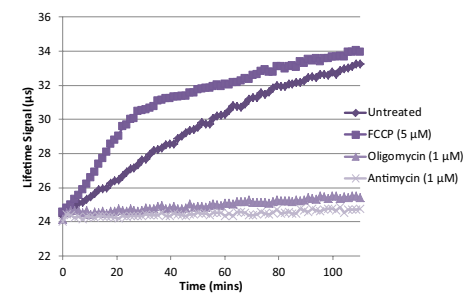
Orexin 2 Receptor Reporter Assay Kit 600250

- A 96-well plate coated with DNA encoding both orexin 2 receptor (OX2R) and a cAMP response element-regulated SEAP
- Cells grown on the complex will express both OX2R and the SEAP reporter
- Binding of OX2R agonists induces expression of SEAP
- SEAP secreted into the supernatant cleaves a luminescence-based substrate (included)



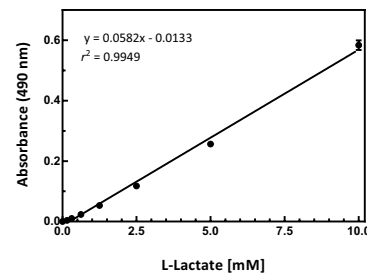
Oxygen Consumption Rate Assay Kit (MitoXpress®-Xtra HS Method) 600800

- Measure oxygen consumption rate (OCR) without the need for an oxygen electrode
- Utilize MitoXpress®-Xtra, a phosphorescent oxygen probe
- Includes antimycin A, an inhibitor of oxygen consumption, as a control
- Includes glucose oxidase as a reference for oxygen depletion



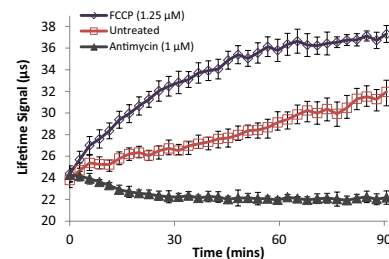
Oxygen Consumption/Glycolysis Dual Assay Kit 601060

- Measure both oxygen consumption and glycolysis
- Utilize MitoXpress®-Xtra, a phosphorescent oxygen probe
- Includes antimycin A, an inhibitor of oxygen consumption, as a control



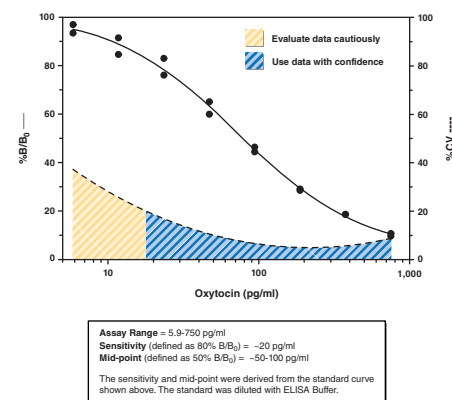
Oxygen Consumption/MitoMembrane Potential Dual Assay Kit 600880

- Measure both oxygen consumption rate (OCR) and mitochondrial membrane potential
- Utilize MitoXpress®-Xtra, a phosphorescent oxygen probe
- Employ the cationic dye, JC-1, to determine mitochondrial membrane potential
- Includes antimycin A, an inhibitor of oxygen consumption, as a control
- Includes glucose oxidase as a reference for oxygen depletion



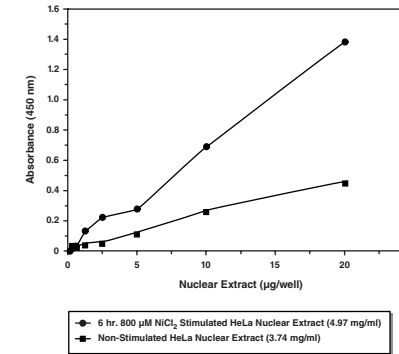
Oxytocin ELISA Kit 500440

- Measure oxytocin in plasma
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure oxytocin levels down to 20 pg/ml
- Incubation: 18 hours | Development: 90-120 minutes | Read: Colorimetric at 405-420 nm



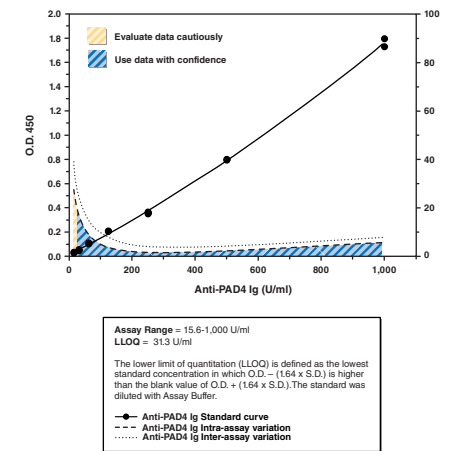
p53 Transcription Factor Assay Kit 600020

- A sensitive, non-radioactive method of detecting p53 from whole cell lysates
- 96-well plate format replaces electrophoretic mobility shift assays (EMSA)
- Capture the transcription factor using a specific dsDNA sequence bound to the plate
- Detect the dsDNA-bound transcription factor with specific antibodies in an ELISA format
- Nuclear Extraction Kit (Item No. 10009277) available to aid in the isolation of nuclear and cytoplasmic fractions from cell lysates or tissue homogenates



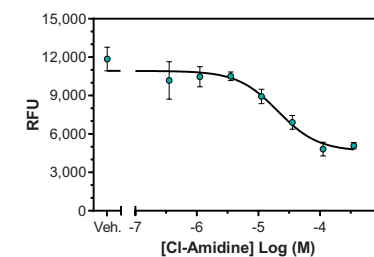
PAD4 Autoantibody ELISA Kit 500930

- Measure anti-protein arginine deiminase 4 (anti-PAD4) autoantibodies of any isotype (IgM, IgG, IgA)
- For use in human plasma and serum (no need to purify samples)
- Assay Range: 15.6-1,000 U/ml with an LLOQ of 31.3 U/ml



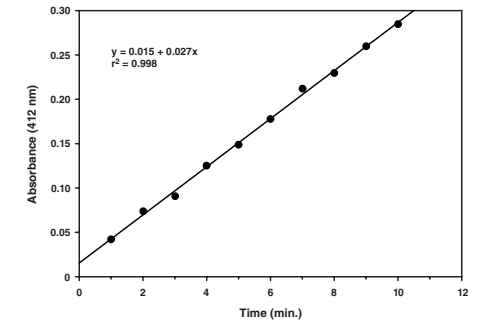
PAD4 Inhibitor Screening Assay Kit (Ammonia) 700560

- Screen for inhibitors of protein arginine deiminase 4 (PAD4)
- Assay 45 samples in duplicate
- Plate-based, fluorometric measurement (ex 405-415 nm, em 470-480 nm)



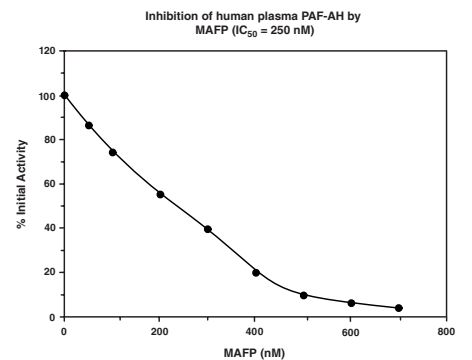
PAF Acetylhydrolase Assay Kit 760901

- Measure PAF acetylhydrolase (PAF-AH) activity in plasma, serum, tissue homogenates, and cell lysates
- Assay 23 samples in duplicate
- Measure PAF-AH activity down to 0.02 U/ml
- Plate-based, colorimetric measurement (405-415 nm)



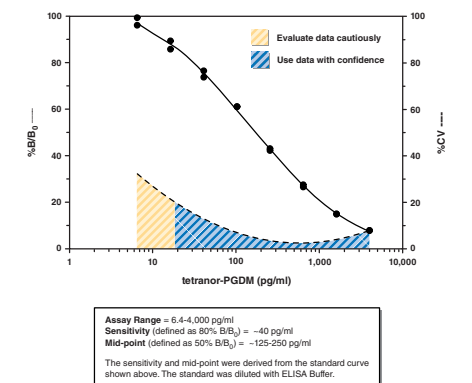
PAF Acetylhydrolase Inhibitor Screening Assay Kit 10004380

- Screen for inhibitors of PAF acetylhydrolase (PAF-AH)
- Assay 45 samples in duplicate
- Plate-based, colorimetric measurement (405-415 nm)



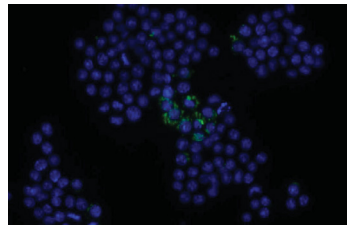
tetranor-PGDM ELISA Kit 501001

- Detect tetranor-prostaglandin D metabolite (tetranor-PDGM), a major metabolite of prostaglandin D₂ (PGD₂) in urine
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure tetranor-PGDM levels down to 40 pg/ml
- Incubation: 18 hours | Development: 60-90 minutes | Read: Colorimetric at 405-420 nm



Phagocytosis Assay Kit (IgG FITC) 500290

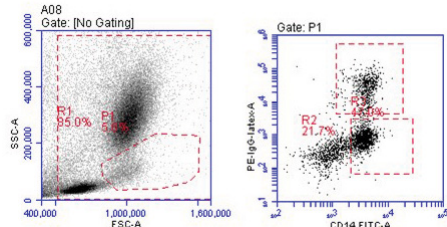
- Detect phagocytosis of rabbit IgG-coated latex beads
- Validated in human peripheral blood monocytes and mouse peritoneal macrophages
- Phagocytosis detectable in 1-4 hours at 37°C
- Assess by flow cytometry or fluorescence microscopy



RAW 264.7 cells phagocytose opsonized particles.

Phagocytosis Assay Kit (IgG PE) 600540

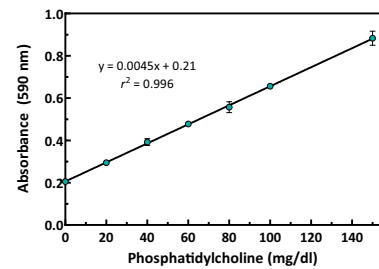
- Detect phagocytosis of rabbit IgG-coated latex beads
- Validated in human peripheral blood monocytes and mouse peritoneal macrophages
- Phagocytosis detectable in 1-4 hours at 37°C
- Assess by flow cytometry or fluorescence microscopy



Peripheral blood monocytes (CD14+) phagocytose opsonized particles.

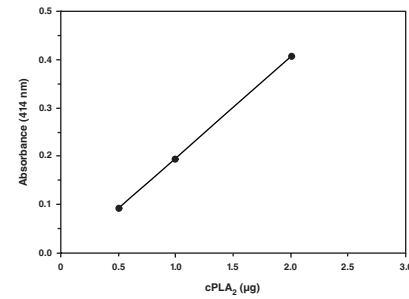
Phosphatidylcholine Colorimetric Assay Kit 10009926

- Measure phosphatidylcholine (PC) in serum or plasma
- Assay 41 samples in duplicate
- Assay Range: 20-150 mg/dl
- Plate-based, colorimetric measurement (580-600 nm)



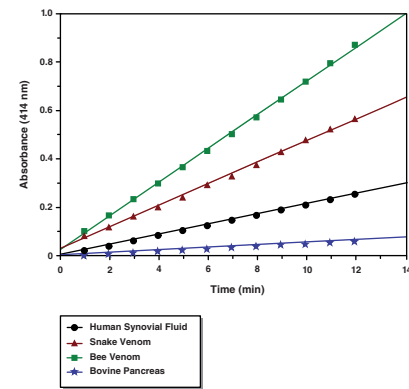
cPLA₂ Assay Kit 765021

- Measure calcium-dependent cytosolic phospholipase A₂ (cPLA₂) activity in cell lysates and tissue homogenates that are known to only contain cPLA₂, or in purified enzyme preparations
- Assay 46 samples in duplicate
- Measure cPLA₂ activity down to 0.0035 U/ml
- Plate-based, colorimetric measurement (405-420 nm)



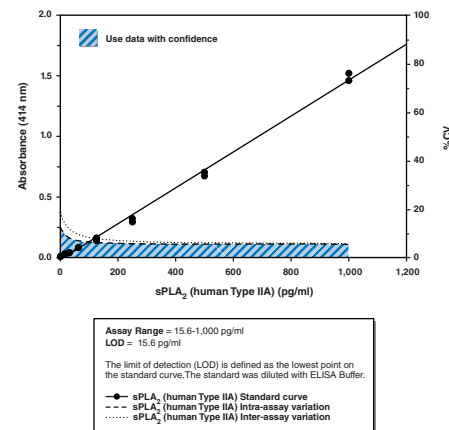
sPLA₂ Assay Kit 765001

- Measure secretory phospholipase A₂ (sPLA₂) activity
- Assay 46 samples in duplicate
- Measure sPLA₂ activity down to 0.02 U/ml
- Plate-based, colorimetric measurement (405-414 nm)



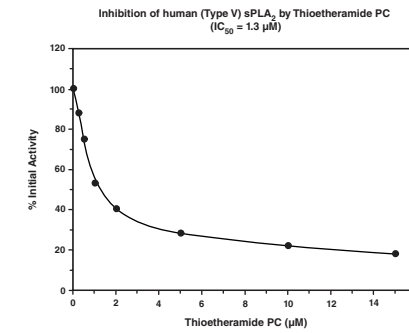
sPLA₂ (human Type IIA) ELISA Kit 585000

- Measure secretory phospholipase A₂ (sPLA₂) levels in plasma, synovial fluid, and other sample matrices
- Assay 24 samples in triplicate or 36 samples in duplicate
- Assay Range: 15.6-1,000 pg/ml with an LOD of 15.6 pg/ml
- Incubation: 18 hours | Development: 90-120 minutes | Read: Colorimetric at 405-420 nm



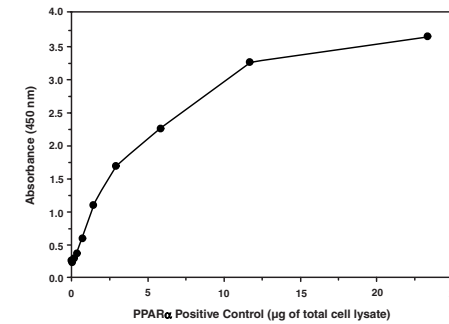
sPLA₂ (Type V) Inhibitor Screening Assay Kit 10004883

- Screen for inhibitors of Type V secretory phospholipase A₂ (sPLA₂)
- Assay 45 samples in duplicate
- Plate-based, colorimetric measurement (405-420 nm)



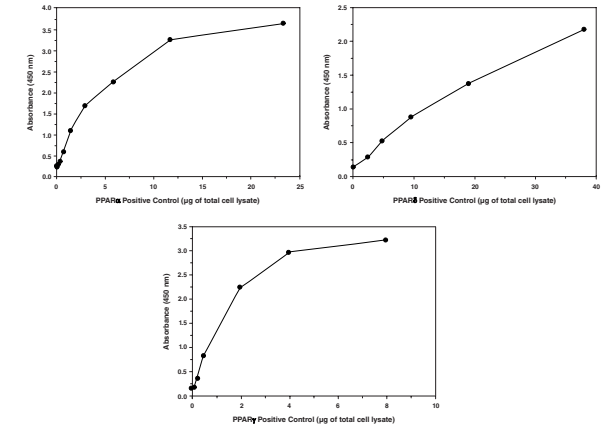
PPARα Transcription Factor Assay Kit 10006915

- A sensitive, non-radioactive method of detecting peroxisome proliferator-activated receptor α (PPARα) from whole cell lysates
- 96-well plate format replaces electrophoretic mobility shift assays (EMSA)
- Capture the transcription factor using a specific dsDNA sequence bound to the plate
- Detect the dsDNA-bound transcription factor with specific antibodies in an ELISA format
- Nuclear Extraction Kit (Item No. 10009277) available to aid in the isolation of nuclear and cytoplasmic fractions from cell lysates or tissue homogenates



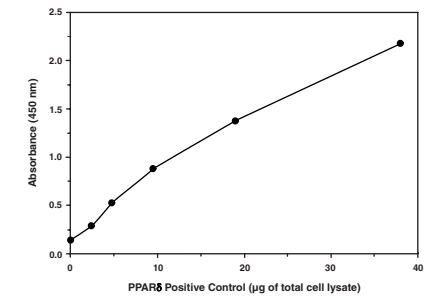
PPARα, δ, γ Complete Transcription Factor Assay Kit 10008878

- A sensitive, non-radioactive method of detecting peroxisome proliferator-activated receptor (PPAR)α, PPARγ, and PPARδ/β from whole cell lysates
- 96-well plate format replaces electrophoretic mobility shift assays (EMSA)
- Capture the transcription factor using a specific dsDNA sequence bound to the plate
- Detect the dsDNA-bound transcription factor with specific antibodies in an ELISA format
- Single 96-well plate that measures all three PPAR isoforms
- Nuclear Extraction Kit (Item No. 10009277) available to aid in the isolation of nuclear and cytoplasmic fractions from cell lysates or tissue homogenates



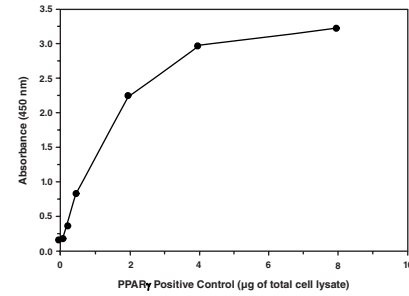
PPARδ Transcription Factor Assay Kit 10006914

- A sensitive, non-radioactive method of detecting peroxisome proliferator-activated receptor δ (PPARδ) from whole cell lysates
- 96-well plate format replaces electrophoretic mobility shift assays (EMSA)
- Capture the transcription factor using a specific dsDNA sequence bound to the plate
- Detect the dsDNA-bound transcription factor with specific antibodies in an ELISA format
- Plate-based, colorimetric measurement (405-420 nm)
- Nuclear Extraction Kit (Item No. 10009277) available to aid in the isolation of nuclear and cytoplasmic fractions from cell lysates or tissue homogenates



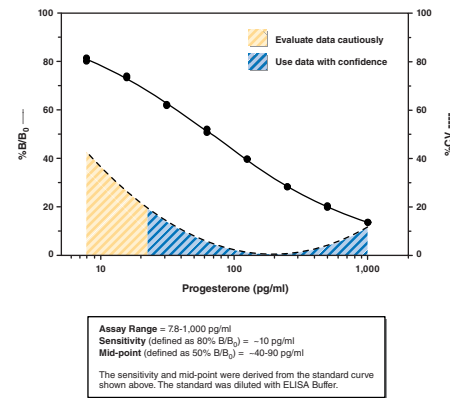
PPAR γ Transcription Factor Assay Kit 10006855

- A sensitive, non-radioactive method of detecting peroxisome proliferator-activated receptor γ (PPAR γ) from whole cell lysates
- 96-well plate format replaces electrophoretic mobility shift assays (EMSA)
- Capture the transcription factor using a specific dsDNA sequence bound to the plate
- Detect the dsDNA-bound transcription factor with specific antibodies in an ELISA format
- Nuclear Extraction Kit (Item No. 10009277) available to aid in the isolation of nuclear and cytoplasmic fractions from cell lysates or tissue homogenates



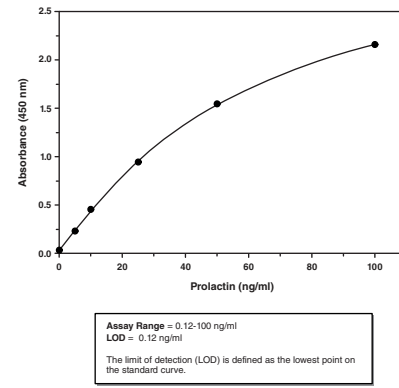
Progesterone ELISA Kit 582601

- Measure progesterone in plasma and other sample matrices
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure progesterone levels down to 10 pg/ml
- Rapid assay; get results in under 4 hours



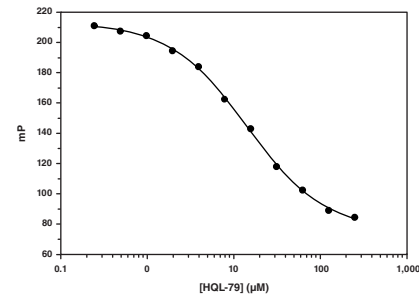
Prolactin (human) ELISA Kit 500730

- Measure prolactin in human serum and plasma
- Assay 27 samples in triplicate or 41 samples in duplicate
- **Assay Range:** 0.12-100 ng/ml with an LOD of 0.12 ng/ml
- Rapid assay; get results in under 2 hours



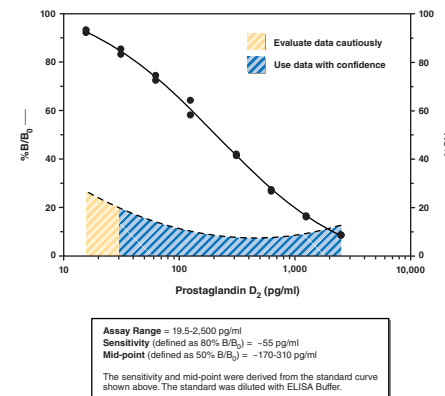
Prostaglandin D Synthase (hematopoietic-type) FP-Based Inhibitor Screening Assay Kit - Green 600007

- Screen for inhibitors of prostaglandin D synthase (hematopoietic-type) (H-PGDS)
- Designed for high-throughput screening
- Includes HQL-79 as a positive control
- Plate-based, fluorescence polarization measurement (ex 470 nm, em 530 nm)



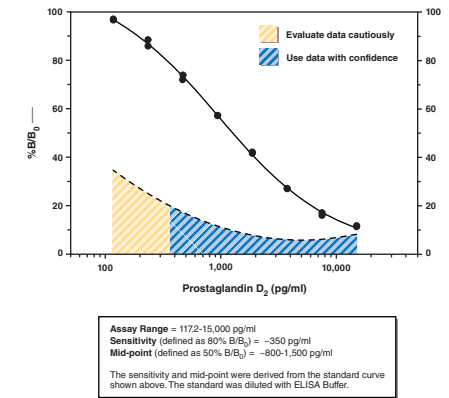
Prostaglandin D₂ ELISA Kit 512031

- Measure prostaglandin D₂ (PGD₂) in multiple sample types
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure PGD₂ levels down to 55 pg/ml
- **Incubation:** 18 hours | **Development:** 90-120 minutes | **Read:** Colorimetric at 405-420 nm



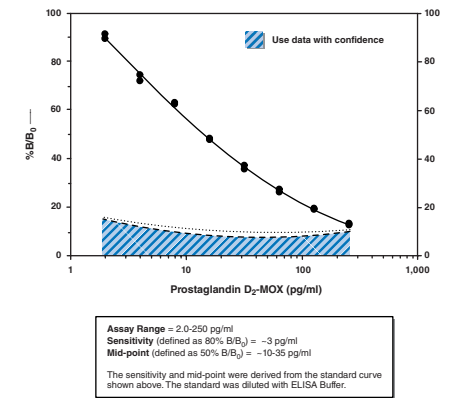
Prostaglandin D₂ Express ELISA Kit 512041

- Measure prostaglandin D₂ (PGD₂) in multiple sample types
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure PGD₂ levels down to 350 pg/ml
- Rapid assay; get results in under 4 hours



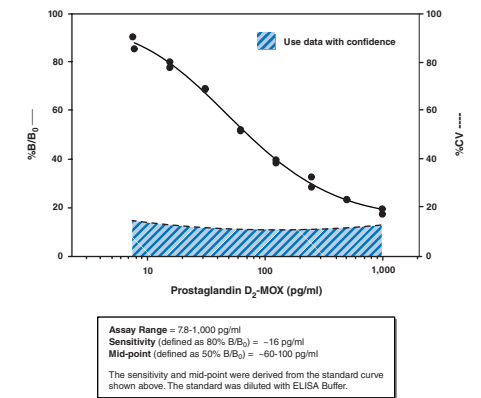
Prostaglandin D₂-MOX ELISA Kit 512011

- Treatment of samples with methoxyamine (MOX) hydrochloride converts unstable prostaglandin D₂ (PGD₂) to stable PGD₂-MOX
- Highly sensitive
- Measure PGD₂-MOX levels down to 3 pg/ml
- **Incubation:** 18 hours | **Development:** 90-120 minutes | **Read:** Colorimetric at 405-420 nm



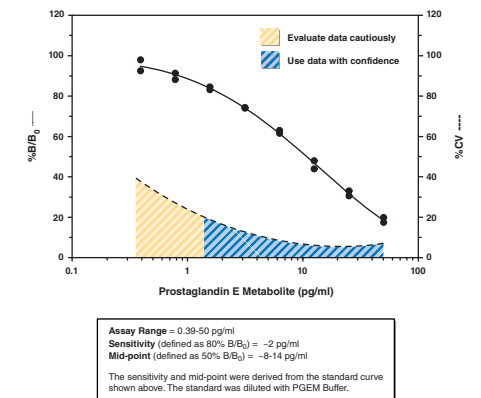
Prostaglandin D₂-MOX Express ELISA Kit 500151

- Treatment of samples with methoxyamine (MOX) hydrochloride converts unstable prostaglandin D₂ (PGD₂) to stable PGD₂-MOX; MOX derivatization reagent included with assay
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure PGD₂-MOX levels down to 16 pg/ml
- Rapid assay; get results in under 4 hours



Prostaglandin E Metabolite ELISA Kit 514531

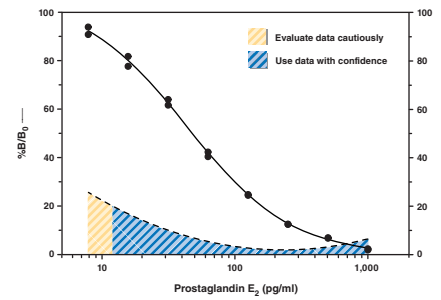
- Converts major urinary and plasma metabolites of prostaglandin E₂ (PGE₂) to a single, stable derivative that is easily quantified
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure PGEM levels down to 2 pg/ml
- **Incubation:** 18 hours | **Development:** 60-90 minutes | **Read:** Colorimetric at 405-420 nm



Prostaglandin E₂ ELISA Kit - Monoclonal

514010

- Measure prostaglandin E₂ (PGE₂) in multiple sample types
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure PGE₂ levels down to 15 pg/ml
- **Incubation:** 18 hours | **Development:** 60-90 minutes | **Read:** Colorimetric at 405-420 nm

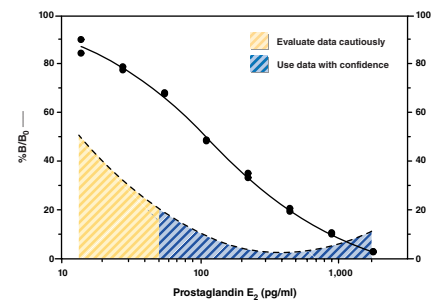


Assay Range = 7.8-1,000 pg/ml
Sensitivity (defined as 80% B/B₀) = ~15 pg/ml
Mid-point (defined as 50% B/B₀) = ~30-70 pg/ml
 The sensitivity and mid-point were derived from the standard curve shown above. The standard was diluted with ELISA Buffer.

Prostaglandin E₂ Express ELISA Kit

500141

- Measure prostaglandin E₂ (PGE₂) in multiple sample types
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure PGE₂ levels down to 36 pg/ml
- Rapid assay; get results in under 4 hours

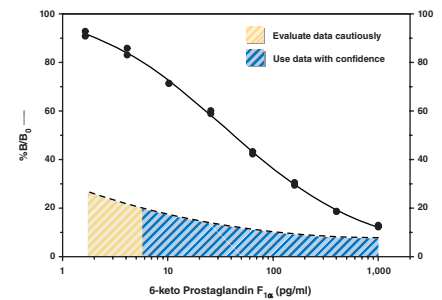


Assay Range = 15.8-2,000 pg/ml
Sensitivity (defined as 80% B/B₀) = ~36 pg/ml
Mid-point (defined as 50% B/B₀) = ~100-200 pg/ml
 The sensitivity and mid-point were derived from the standard curve shown above. The standard was diluted with ELISA Buffer.

6-keto Prostaglandin F_{1α} ELISA Kit

515211

- Detect 6-keto prostaglandin F_{1α} (PGF_{1α}), a surrogate for prostacyclin synthesis in multiple sample types
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure 6-keto PGF_{1α} levels down to 6 pg/ml
- **Incubation:** 18 hours | **Development:** 90-120 minutes | **Read:** Colorimetric at 405-420 nm

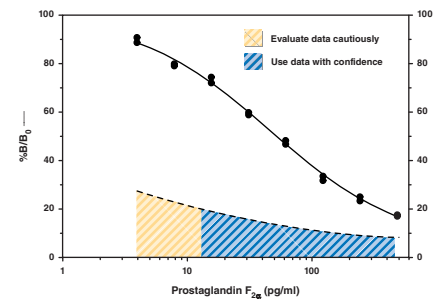


Assay Range = 1.6-1,000 pg/ml
Sensitivity (defined as 80% B/B₀) = ~6 pg/ml
Mid-point (defined as 50% B/B₀) = ~20-60 pg/ml
 The sensitivity and mid-point were derived from the standard curve shown above. The standard was diluted with ELISA Buffer.

Prostaglandin F_{2α} ELISA Kit

516011

- Measure prostaglandin F_{2α} (PGF_{2α}) in multiple sample types
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure PGF_{2α} levels down to 10 pg/ml
- **Incubation:** 18 hours | **Development:** 90-120 minutes | **Read:** Colorimetric at 405-420 nm

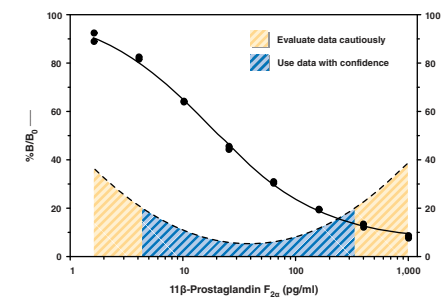


Assay Range = 3.9-500 pg/ml
Sensitivity (defined as 80% B/B₀) = ~10 pg/ml
Mid-point (defined as 50% B/B₀) = ~40-60 pg/ml
 The sensitivity and mid-point were derived from the standard curve shown above. The standard was diluted with ELISA Buffer.

11β-Prostaglandin F_{2α} ELISA Kit

516521

- Detect 11β-prostaglandin F_{2α} (PGF_{2α}), the primary metabolite of PGD₂, in plasma or urine
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure 11β-PGF_{2α} levels down to 5 pg/ml
- **Incubation:** 18 hours | **Development:** 60-90 minutes | **Read:** Colorimetric at 405-420 nm

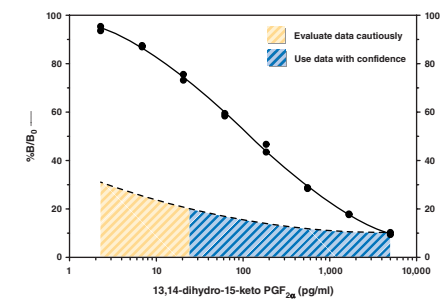


Assay Range = 1.6-1,000 pg/ml
Sensitivity (defined as 80% B/B₀) = ~5 pg/ml
Mid-point (defined as 50% B/B₀) = ~25-45 pg/ml
 The sensitivity and mid-point were derived from the standard curve shown above. The standard was diluted with ELISA Buffer.

13,14-dihydro-15-keto Prostaglandin F_{2α} ELISA Kit

516671

- Detect 13,14-dihydro-15-keto prostaglandin F_{2α} (PGF_{2α}), a stable metabolite of PGF_{2α}
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure 13,14-dihydro-15-keto PGF_{2α} levels down to 15 pg/ml
- **Incubation:** 18 hours | **Development:** 90-120 minutes | **Read:** Colorimetric at 405-420 nm

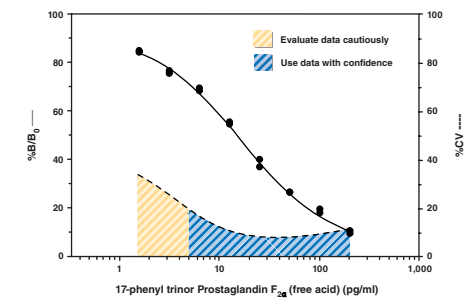


Assay Range = 2.3-5,000 pg/ml
Sensitivity (defined as 80% B/B₀) = ~15 pg/ml
Mid-point (defined as 50% B/B₀) = ~90-150 pg/ml
 The sensitivity and mid-point were derived from the standard curve shown above. The standard was diluted with ELISA Buffer.

17-phenyl trinor Prostaglandin F_{2α} ELISA Kit

516821

- Measure 17-phenyl trinor prostaglandin F_{2α} (PGF_{2α}) (also known as bimatoprost)
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure 17-phenyl trinor PGF_{2α} levels down to 2.6 pg/ml
- **Incubation:** 18 hours | **Development:** 90-120 minutes | **Read:** Colorimetric at 405-420 nm

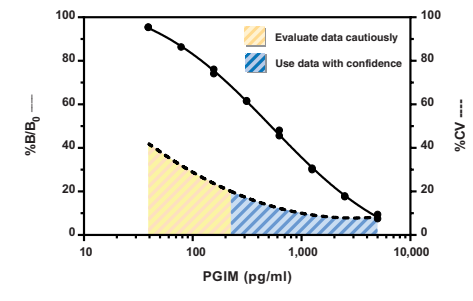


Assay Range = 1.56-200 pg/ml
Sensitivity (defined as 80% B/B₀) = ~2.6 pg/ml
Mid-point (defined as 50% B/B₀) = ~15 pg/ml
 The sensitivity and mid-point were derived from the standard curve shown above. The standard was diluted with ELISA Buffer.

Prostaglandin I Metabolite ELISA Kit

501100

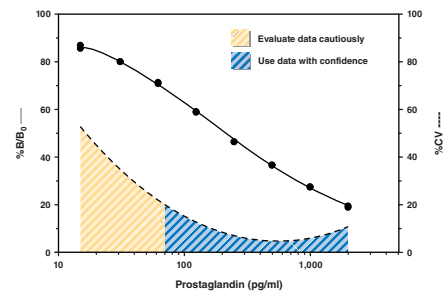
- Measure prostaglandin I metabolites (PGIMs) in urine
- Measure PGIM down to 120 pg/ml
- Convenient overnight format



Assay Range = 39-5,000 pg/ml
Sensitivity (defined as 80% B/B₀) = ~120 pg/ml
Mid-point (defined as 50% B/B₀) = ~500 pg/ml
 The sensitivity and mid-point were derived from the standard curve shown above. The standard was diluted with Assay Buffer.

Prostaglandin Screening ELISA Kit 514012

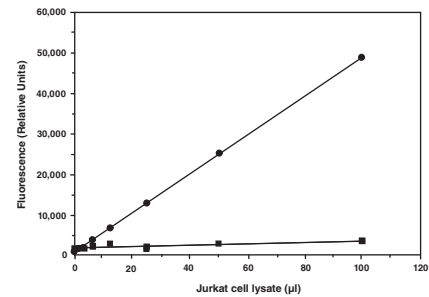
- Measure total prostaglandin (PG) levels in tissue culture medium
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure total PG levels down to 30 pg/ml
- **Incubation:** 18 hours | **Development:** 60-90 minutes | **Read:** Colorimetric at 405-420 nm



Assay Range = 15.6-2,000 pg/ml
Sensitivity (defined as 80% BB₀) = ~30 pg/ml
Mid-point (defined as 50% BB₀) = ~125-250 pg/ml
The sensitivity and mid-point were derived from the standard curve shown above. The standard was diluted with ELISA Buffer.

20S Proteasome Assay Kit 10008041

- A functional assay for detecting activity of the 20S proteasome in cell lysates
- Utilize SUC-LLVY-AMC as a specific substrate for the 20S proteasome
- Includes a Jurkat cell lysate as a positive control
- Includes EGCG, a specific 20S proteasome inhibitor



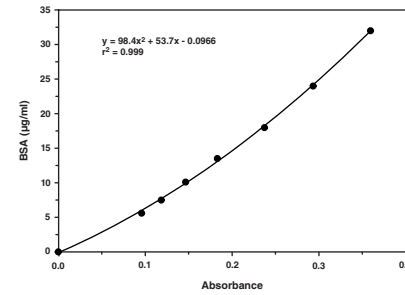
● Positive Control + Substrate
■ Positive Control + Substrate + EGCG

Protein Carbonyl Colorimetric Assay Kit 10005020

- Measure protein carbonyl content in plasma, serum, urine, tissue homogenates, and cell lysates
- Assay 24 samples in duplicate
- Plate-based, colorimetric measurement (360-385 nm)

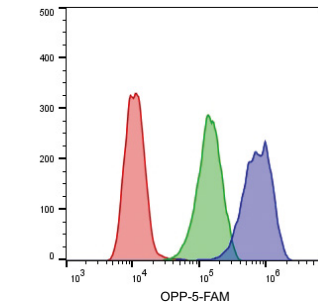
Protein Determination Kit 704002

- Measure total protein concentration
- **Assay Range:** 5.6-32 µg/ml
- Plate-based, colorimetric measurement (595 nm)



Protein Synthesis Assay Kit 601100

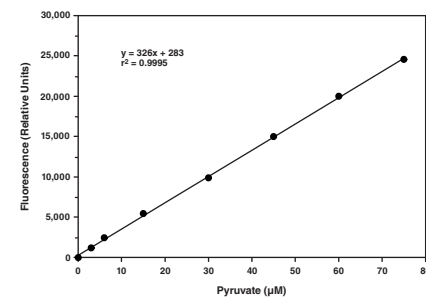
- Non-radioactive, simple procedure
- Measure nascent protein synthesis in cells
- O-Propargyl-puromycin (OPP) and 5 FAM-Azide used to detect nascent proteins by flow cytometry, microscopy, or plate reader
- Sufficient reagents to run up to 100 samples



Cycloheximide inhibits mRNA translation to polypeptides, as measured by flow cytometry. Red: Untreated cells, blue: OPP labeled cells with no treatment, green: OPP labeled cells treated with cycloheximide.

Pyruvate Assay Kit 700470

- Measure pyruvate in serum, plasma, blood, urine, and saliva
- Assay 40 samples in duplicate
- **Assay Range:** 3-70 µM
- Plate-based, fluorometric measurement (ex 530-540 nm, em 585-595 nm)



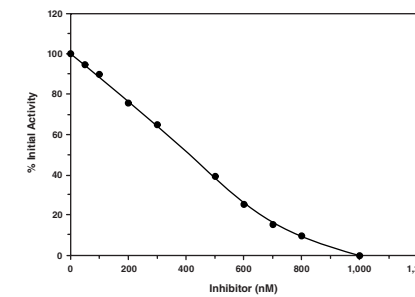
Rabbit Anti-Goat Fluorophore Selection Kit 16544

- **Comprehensive:** Columbia Biosciences' fluorophore selection kits include the secondary antibody individually conjugated to seven unique fluorophores
- **Efficient:** The ability to evaluate the various labeled conjugates side-by-side allows scientists to rapidly optimize their reagents
- **Cost-effective:** Order one kit and get seven conjugated secondary antibodies. The fluorophore selection kit reduces costs associated with purchasing and shipping full-size antibody conjugates.



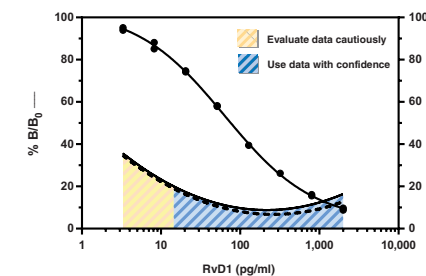
Renin Inhibitor Screening Assay Kit 10006270

- Screen for inhibitors of renin aspartyl protease activity
- Assay 45 samples in duplicate
- Plate-based, fluorometric measurement (ex 335-345 nm, em 484-510 nm)



Resolvin D1 ELISA Kit 500380

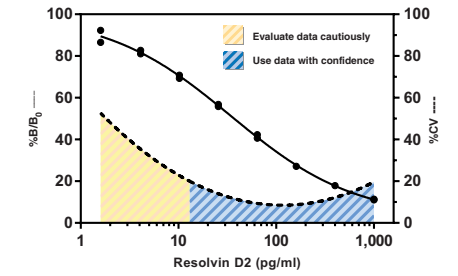
- Detect resolvin D1 (RvD1) in multiple sample types
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure RvD1 levels down to 15 pg/ml
- **Incubation:** 18 hours | **Development:** 90-120 minutes | **Read:** Colorimetric at 405-420 nm



Assay Range = 3.3-2,000 pg/ml
Sensitivity (defined as 80% BB₀) = ~15 pg/ml
Mid-point (defined as 50% BB₀) = ~50-100 pg/ml
The sensitivity and mid-point were derived from the standard curve shown above. The standard was diluted with ELISA Buffer.
● RvD1 Standard curve
--- RvD1 Intra-assay variation in ELISA Buffer
..... RvD1 Intra-assay variation in DMEM containing phenol red and 10% FBS

Resolvin D2 ELISA Kit 501120

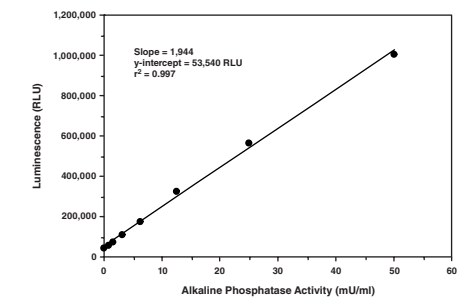
- Detect resolvin D2 (RvD2) in multiple sample types
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure RvD2 levels down to 10 pg/ml
- **Incubation:** 18 hours | **Development:** 90-120 minutes | **Read:** Colorimetric at 405-420 nm



Assay Range = 1.6-1,000 pg/ml
Sensitivity (defined as 80% BB₀) = ~10 pg/ml
Mid-point (defined as 50% BB₀) = ~20-60 pg/ml
The sensitivity and mid-point were derived from the standard curve shown above. The standard was diluted with ELISA Buffer.

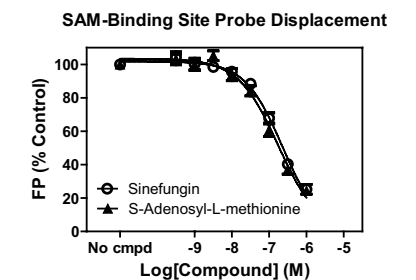
Secreted Alkaline Phosphatase Reporter Gene Assay Kit (Luminescence) 600260

- A simple chemiluminescence assay for measuring secreted alkaline phosphatase (SEAP) from transfected cells
- Detect SEAP activity in culture medium in the mU/well range
- Contains enough reagents to run three 96-well plates
- Rapid assay; get results within 1 hour



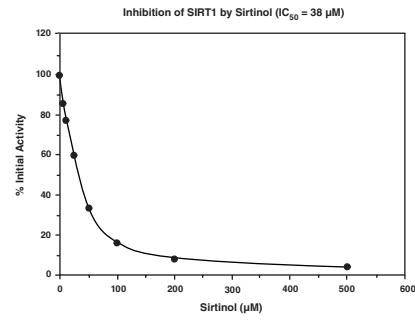
SET7/9 SAM-Screener™ Assay Kit 600490

- Homogeneous, fluorescence polarization assay to screen for SAM-binding site inhibitors
- Designed for high-throughput screening
- Plate-based, fluorescence polarization measurement (ex 575 nm, em 620 nm)



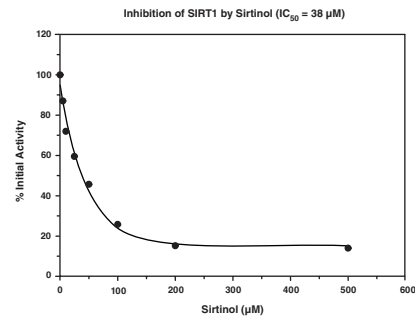
SIRT1 Direct Fluorescent Screening Assay Kit 10010401

- Screen for modulators of SIRT1 activity
- Assay 45 samples in duplicate
- Plate-based, fluorometric measurement (ex 340-360 nm, em 450-465 nm)



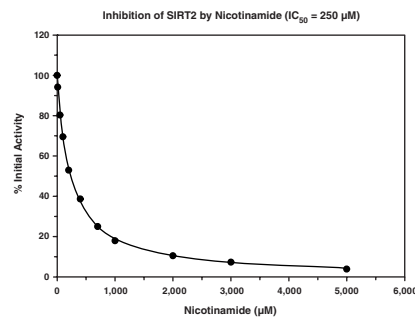
SIRT1 FRET-Based Screening Assay Kit 10010991

- Screen for modulators of SIRT1 activity
- Assay 45 samples in duplicate
- Plate-based, fluorometric measurement (ex 335-345 nm, em 440-465 nm)



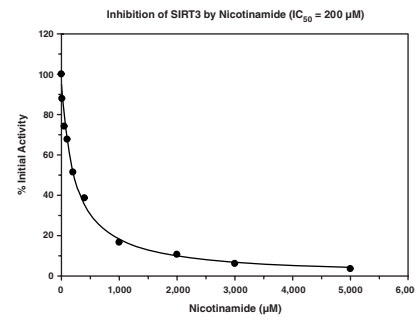
SIRT2 Direct Fluorescent Screening Assay Kit 700280

- Screen for modulators of SIRT2 activity
- Assay 45 samples in duplicate
- Plate-based, fluorometric measurement (ex 340-360 nm, em 450-465 nm)



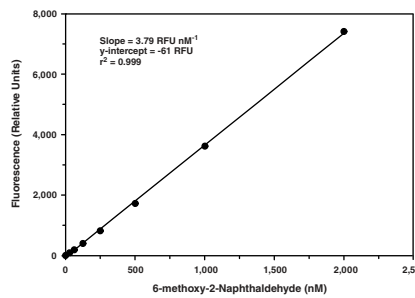
SIRT3 Direct Fluorescent Screening Assay Kit 10011566

- Screen for modulators of SIRT3 activity
- Assay 45 samples in duplicate
- Plate-based, fluorometric measurement (ex 340-360 nm, em 450-465 nm)



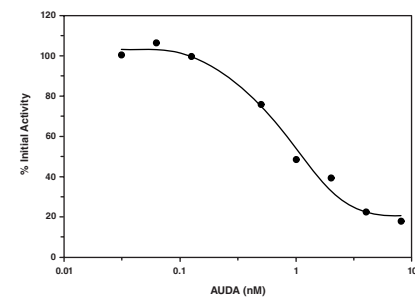
Soluble Epoxide Hydrolase Cell-Based Assay Kit 600090

- A convenient 96-well fluorescence-based assay for detecting soluble epoxide hydrolase (sEH) activity in whole cells
- Utilize epoxy fluor 7, a sensitive fluorescent substrate for sEH
- Quantifiable using the included 6-methoxy-2-naphthaldehyde standard
- Includes AUDA, a selective epoxide hydrolase inhibitor, for checking specificity of the reaction



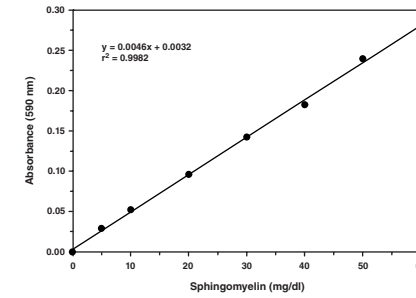
Soluble Epoxide Hydrolase Inhibitor Screening Assay Kit 10011671

- Screen for inhibitors of soluble epoxide hydrolase (sEH)
- Assay 45 samples in duplicate
- Plate-based, fluorometric measurement (ex 330 nm, em 465 nm)



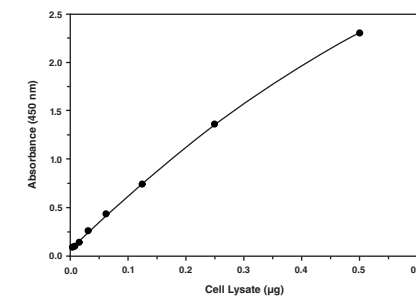
Sphingomyelin Colorimetric Assay Kit 10009928

- Measure sphingomyelin (SM) in plasma and serum
- Assay 41 samples in duplicate
- **Assay Range:** 5-50 mg/dl
- Plate-based, colorimetric measurement (585-600 nm)



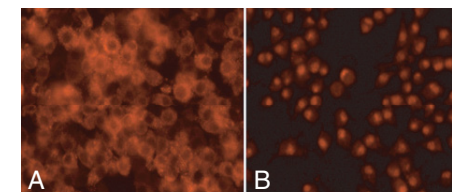
SREBP-1 Transcription Factor Assay Kit 10010854

- A sensitive, non-radioactive method of detecting sterol regulatory element-binding protein-1 (SREBP-1) from whole cell lysates
- 96-well plate format replaces electrophoretic mobility shift assays (EMSA)
- Capture the transcription factor using a specific dsDNA sequence bound to the plate
- Detect the dsDNA-bound transcription factor with specific antibodies in an ELISA format
- Nuclear Extraction Kit (Item No. 10009277) available to aid in the isolation of nuclear and cytoplasmic fractions from cell lysates or tissue homogenates



SREBP-2 Cell-Based Translocation Assay Kit 10009239

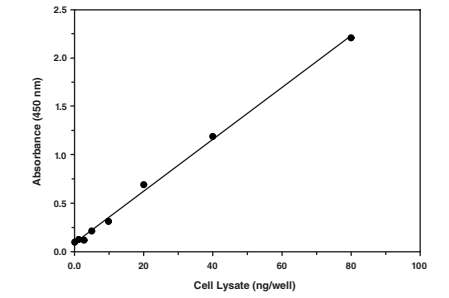
- Detect translocation of sterol regulatory element-binding protein-2 (SREBP-2) into the nucleus of treated and fixed cells by immunofluorescence
- Employ a highly specific antibody to SREBP-2
- An inhibitor of cholesterol trafficking is included as a positive control



Translocation of SREBP-2 into nuclei by 24 μM U-18666A.

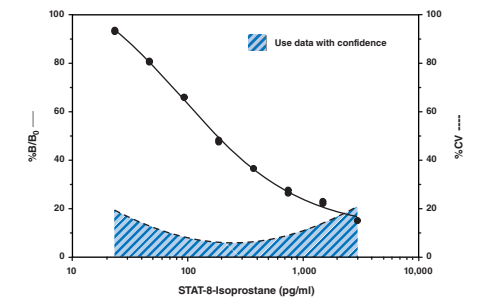
SREBP-2 Transcription Factor Assay Kit 10007819

- A sensitive, non-radioactive method of detecting sterol regulatory element-binding protein-2 (SREBP-2) from whole cell lysates
- 96-well plate format replaces electrophoretic mobility shift assays (EMSA)
- Capture the transcription factor using a specific dsDNA sequence bound to the plate
- Detect the dsDNA-bound transcription factor with specific antibodies in an ELISA format
- Nuclear Extraction Kit (Item No. 10009277) available to aid in the isolation of nuclear and cytoplasmic fractions from cell lysates or tissue homogenates



STAT-8-Isoprostane ELISA Kit 500431

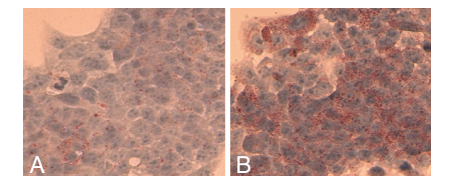
- Measure 8-isoprostane, a biomarker of oxidative stress
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure 8-isoprostane levels down to 45 pg/ml
- Extremely rapid assay; get results in about 2 hours
- Alkaline phosphatase used as tracer



Assay Range = 23.4-3,000 pg/ml
Sensitivity (defined as 60% B/B₀) = ~45 pg/ml
Mid-point (defined as 50% B/B₀) = ~100-300 pg/ml
The sensitivity and mid-point were derived from the standard curve shown above. The standard was diluted with Tris Buffer.

Steatosis Colorimetric Assay Kit 10012643

- Detect excessive lipid accumulation in cells
- Assess by microscopy or plate reader
- An inducer of lipid accumulation is included as a positive control

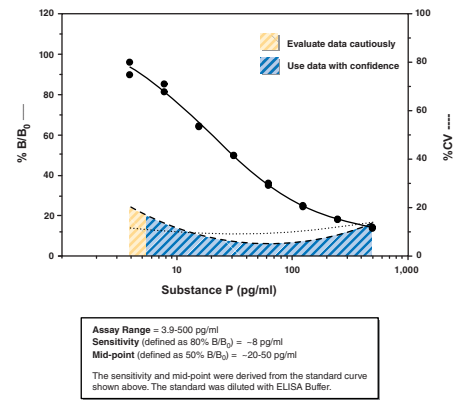


Effect of chloroquine on lipid droplet accumulation in HepG2 cells.

Substance P ELISA Kit

583751

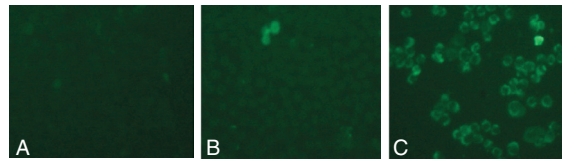
- Measure substance P in multiple sample matrices from multiple species
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure substance P levels down to 8 pg/ml
- **Incubation:** 18 hours | **Development:** 90-120 minutes | **Read:** Colorimetric at 405-420 nm



Sulfenylated Protein Cell-Based Detection Kit

600320

- Contains the cell-permeable probe DAz-2 to detect sulfenic acid-modified proteins in cells
- Includes epigallocatechin gallate (EGCG) as a positive control
- Detect by flow cytometry, fluorescence microscopy, or plate reader

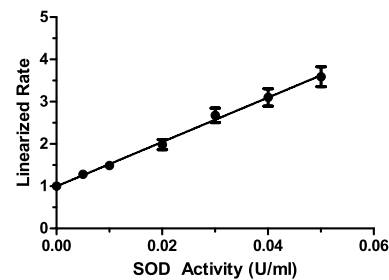


Hydrogen peroxide induces protein sulfenylation in RAW 264.7 cells. Panel A: Control, no DAz-2. Panel B: Cells treated with vehicle. Panel C: Cells treated with 0.25% H₂O₂.

Superoxide Dismutase Assay Kit

706002

- Measure copper/zinc, manganese, and iron superoxide dismutase (SOD) in tissues, plasma, serum, and cell lysates
- Assay 41 samples in duplicate
- Measure SOD activity down to 0.005 U/ml



SureLight® APC Conjugation Kit 1 mg IgG

13411

- A complete kit for conjugating APC to IgG
- See www.caymanchem.com for more details



SureLight® APC Conjugation Kit 2 mg IgG

13412

- A complete kit for conjugating APC to IgG
- See www.caymanchem.com for more details



SureLight® R-PE Conjugation Kit

13436

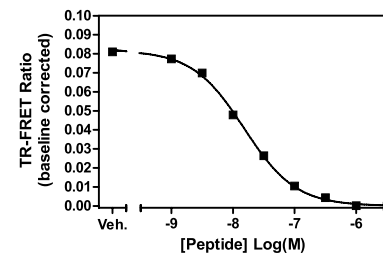
- A complete kit for conjugating R-PE to proteins
- See www.caymanchem.com for more details



TAF1 bromodomain 1 TR-FRET Assay Kit

600870

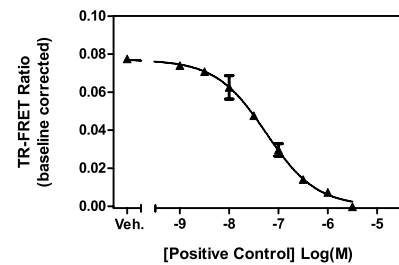
- Homogeneous, time-resolved fluorescence energy transfer (TR-FRET) assay to screen for inhibitors
- Designed for high-throughput screening
- Plate-based, time-resolved fluorometric measurement (ex 340 nm, em 620 and 670 nm)



TAF1 bromodomains 1 and 2 TR-FRET Assay Kit

600930

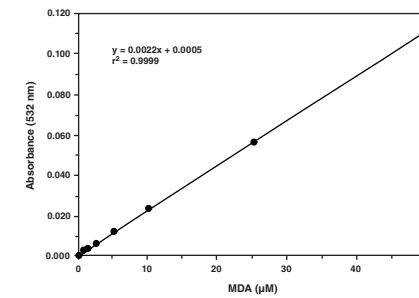
- Homogeneous, time-resolved fluorescence energy transfer (TR-FRET) assay to screen for inhibitors
- Designed for high-throughput screening
- Plate-based, time-resolved fluorometric measurement (ex 340 nm, em 620 and 670 nm)



TBARS Assay Kit

10009055

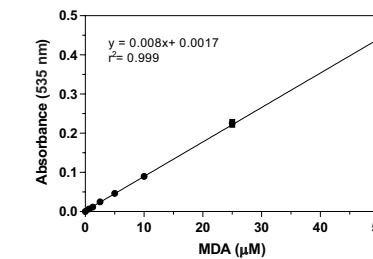
- Measure thiobarbituric acid reactive substances (TBARS) in plasma, serum, urine, tissue homogenates, and cell lysates
- Assay 40 samples in duplicate
- **Assay Range:** 0.0625-50 μM
- Plate-based, colorimetric measurement (530-540 nm) or fluorometric measurement (ex 530 nm, em 550 nm)



TBARS (TCA Method) Assay Kit

700870

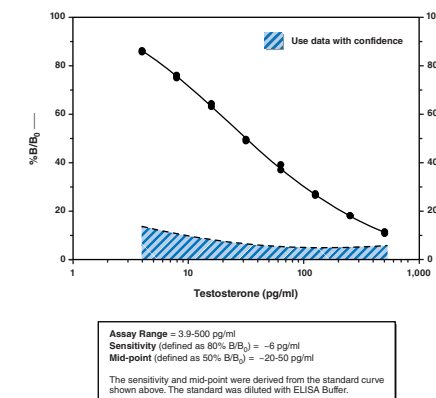
- Measure thiobarbituric acid reactive substances (TBARS) in plasma, serum, urine, tissue homogenates, and cell lysates
- Assay 40 samples in duplicate
- **Assay Range:** 0.0625-50 μM
- Plate-based, colorimetric measurement (530-540 nm) or fluorometric measurement (ex 530 nm, em 550 nm)



Testosterone ELISA Kit

582701

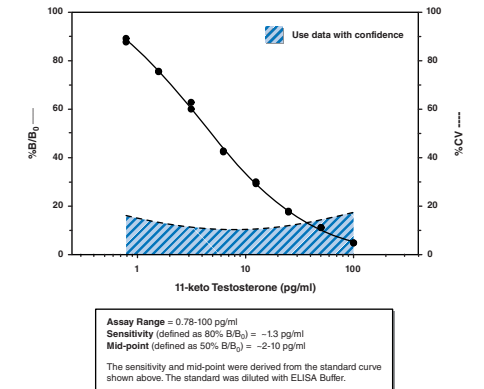
- Measure testosterone in multiple sample types
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure testosterone levels down to 6 pg/ml
- **Incubation:** 2 hours | **Development:** 60-90 minutes | **Read:** Colorimetric at 405-420 nm



11-keto Testosterone ELISA Kit

582751

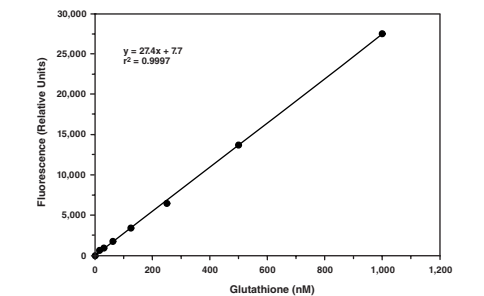
- Detect the primary androgenic steroid in fish
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure 11-keto testosterone levels down to 1.3 pg/ml
- **Incubation:** 18 hours | **Development:** 90-120 minutes | **Read:** Colorimetric at 405-420 nm



Thiol Detection Assay Kit

700340

- Measure free thiol content in plasma, serum, urine, cell lysates, and tissue homogenates
- Assay 40 samples in duplicate
- **Assay Range:** 15 nM-1 μM
- Plate-based fluorometric measurement (ex 380-390 nm, em 510-520 nm)
- Includes both a glutathione and cysteine standard



Thioredoxin Activity Fluorescent V2 Assay Kit

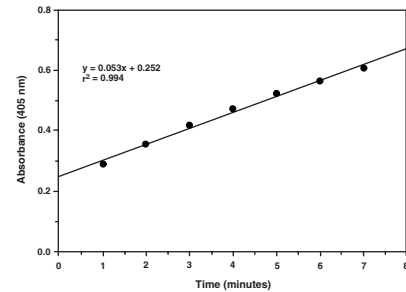
15493

- Convenient 96-well plate format
- Measure thioredoxin (Trx) activity in cell lysates and tissue homogenates
- Active TrxR and human Trx-1 provided with kit



Thioredoxin Reductase Colorimetric Assay Kit 10007892

- Measure thioredoxin reductase (TrxR) activity in tissue homogenates and cell lysates
- Assay 22 samples in duplicate
- Measure TrxR down to 0.08 U/ml
- Plate-based colorimetric measurement (405-414 nm)



Thioredoxin Reductase Fluorescent Activity Assay Kit 11529

- Convenient 96-well plate format
- Measure thioredoxin reductase (TrxR) in cell lysates and tissue homogenates
- Active TrxR and human Trx-1 provided with kit



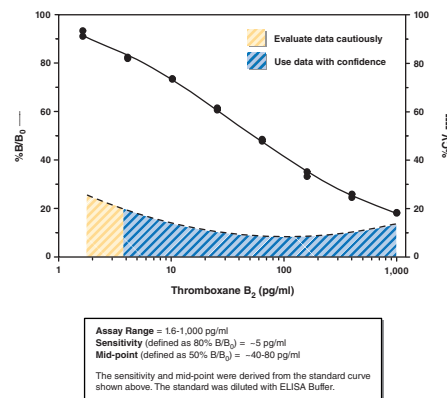
Thioredoxin/Thioredoxin Reductase Mammalian Assay Kit 11526

- Convenient 96-well plate format
- Measure both thioredoxin reductase (TrxR) and Trx in cell lysates and tissue homogenates
- Active TrxR and human Trx-1 provided with kit



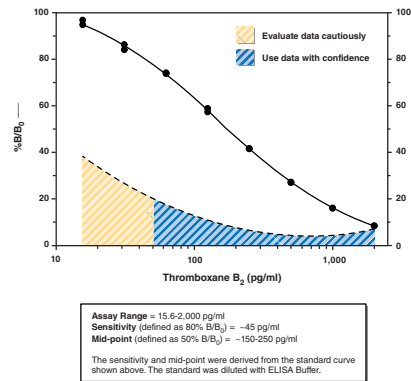
Thromboxane B₂ ELISA Kit 501020

- Measure thromboxane B₂ (TXB₂) in multiple sample types
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure TXB₂ levels down to 5 pg/ml
- Incubation: 18 hours | Development: 90-120 minutes | Read: Colorimetric at 405-420 nm



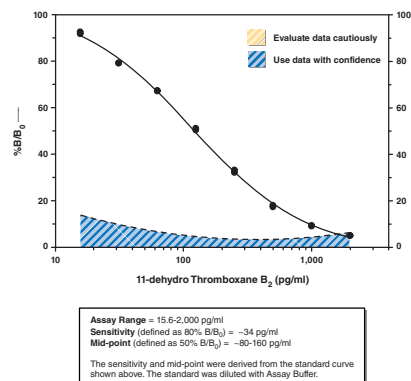
Thromboxane B₂ Express ELISA Kit - Monoclonal 10004023

- Measure thromboxane B₂ (TXB₂) in multiple sample types
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure TXB₂ levels down to 45 pg/ml
- Rapid assay; get results in under 4 hours



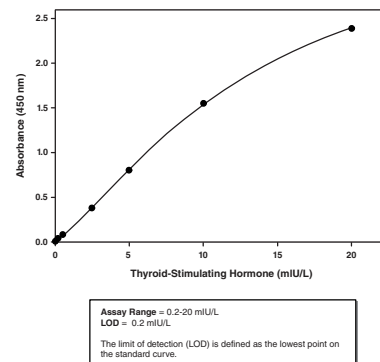
11-dehydro Thromboxane B₂ ELISA Kit - Monoclonal 519510

- Detect 11-dehydro thromboxane B₂ (TXB₂), a stable urinary metabolite of TXA₂ and TXB₂
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure 11-dehydro TXB₂ levels down to 34 pg/ml
- Incubation: 18 hours | Development: 60-90 minutes | Read: Colorimetric at 405-420 nm



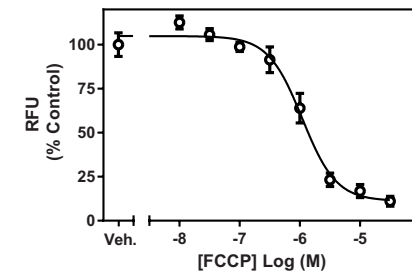
Thyroid-Stimulating Hormone ELISA Kit 500740

- Measure thyroid-stimulating hormone (TSH) in human serum and plasma
- Assay 26 samples in triplicate or 40 samples in duplicate
- Assay Range: 0.2-20 mIU/L with an LOD of 0.2 mIU/L
- Rapid assay; get results in under 3 hours



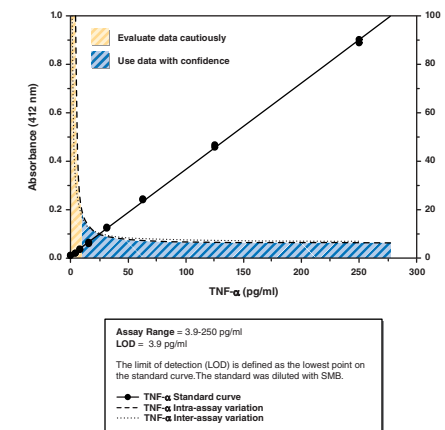
TMRE Mitochondrial Membrane Potential Assay Kit 701310

- Detect mitochondrial membrane potential as an indicator of mitochondrial health
- Utilize tetramethylrhodamine ethyl ester (TMRE), a fluorescent, lipophilic, cationic dye
- Staining in less than 1 hour



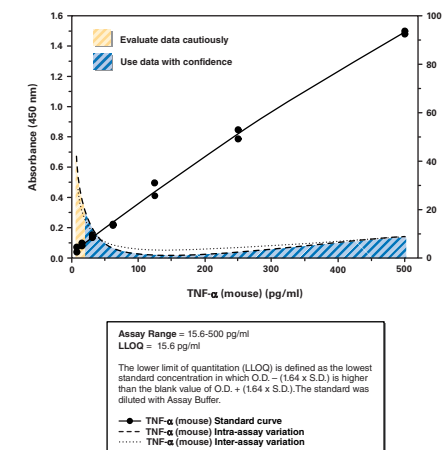
TNF-α (human) ELISA Kit 589201

- Measure tumor necrosis factor-α (TNF-α) from human plasma, serum, and other sample matrices
- Assay Range: 3.9-250 pg/ml with an LOD of 3.9 pg/ml
- Incubation: 18 hours | Development: 60-90 minutes | Read: Colorimetric at 405-420 nm



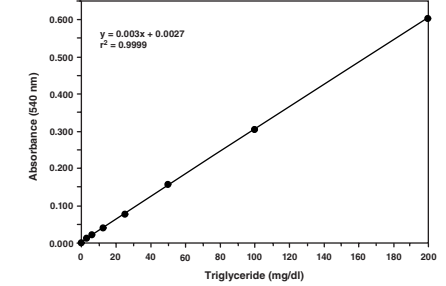
TNF-α (mouse) ELISA Kit 500850

- Measure tumor necrosis factor-α (TNF-α) from mouse plasma, serum, and other sample matrices
- Assay Range: 15.6-500 pg/ml with an LLOQ of 15.6 pg/ml
- Rapid assay; get results in under 3 hours



Triglyceride Colorimetric Assay Kit 10010303

- Measure triglycerides (TGs) levels in plasma, serum, cell lysates, and tissue homogenates
- Assay 26 samples in triplicate and 40 samples in duplicate
- Assay Range: 3.125 to 200 mg/dl
- Incubation: 15 minutes | Read: Colorimetric at 530-550 nm

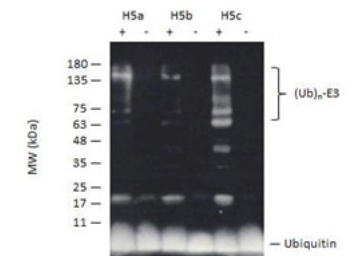


Ubiquitin Interact Kit 15978

- Identify and characterize isolated ubiquitin binding proteins by western blotting or proteomic analysis
- Demonstrate ubiquitin binding by specific proteins of interest
- Investigate the role of ubiquitin in particular signaling pathways

Ubiquitin Link Kit 15985

- Develop assays for E3 auto-ubiquitination and substrate ubiquitination
- Determine suitable E2 for use with specific E3 or E3-substrate systems
- Assess E3 ligase activity of novel enzymes
- Investigate effect of ubiquitination on substrate protein function



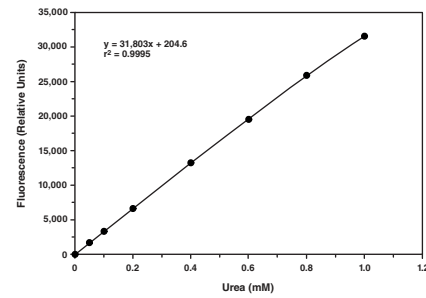
Ubiquitinated Protein Capture Kit 15979

- Demonstrate specific proteins are substrates for ubiquitin modification *in vivo*
- Capture and detect ubiquitinated proteins and free chains from cell lysates and tissue extracts by western blotting
- Identify and characterize ubiquitin-modified proteins by proteomic analysis
- Investigate the role of ubiquitin in particular signaling pathways

Urea Fluorometric Assay Kit

700620

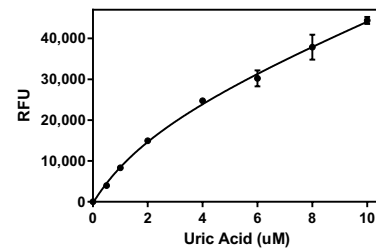
- Measure urea in plasma, serum, and urine
- Assay 20 samples in duplicate
- **Assay Range:** 50 μ M-1 mM
- Plate-based fluorometric measurement (ex 405-415 nm, em 470-480 nm)



Uric Acid Assay Kit

700320

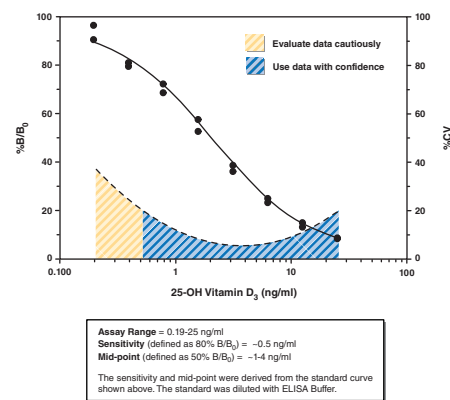
- Measure uric acid in serum, plasma, and urine
- Assay 40 samples in duplicate
- **Assay Range:** 0.5-10 μ M
- Plate-based fluorometric measurement (ex 530-540 nm, em 585-595 nm)



Vitamin D ELISA Kit

501050

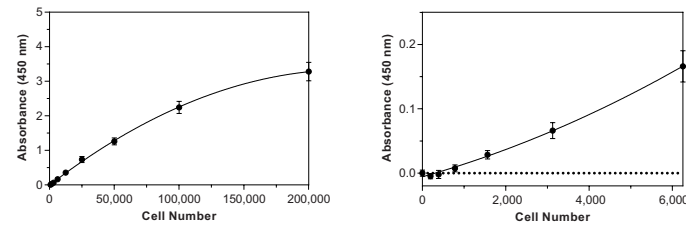
- Measure vitamin D in plasma or serum
- Detect the metabolically stable forms 25(OH)D₃ and 25(OH)D₂
- Assay 24 samples in triplicate or 36 samples in duplicate
- Measure vitamin D levels down to 0.5 ng/ml
- **Incubation:** 18 hours | **Development:** 60-90 minutes | **Read:** Colorimetric at 405-420 nm



WST-1 Cell Proliferation Assay Kit

10008883

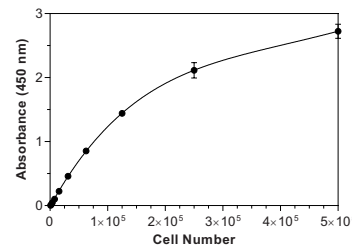
- A colorimetric, non-radioactive assay for assessing cell viability and proliferation
- WST-1 is reduced to purple formazan by extracellular NADH from living cells
- Detect 1,000-200,000 cells per well
- Rapid assay; get results in 2-4 hours



WST-8 Cell Proliferation Assay Kit

10010199

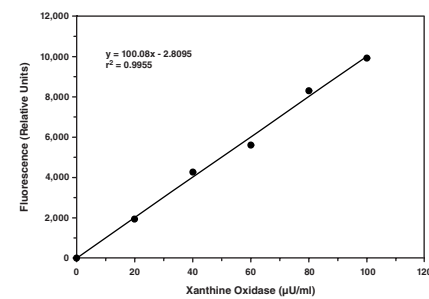
- A colorimetric, non-radioactive assay for assessing cell viability and proliferation
- WST-8 is reduced to purple formazan by extracellular NADH from living cells
- Detect 2,000-500,000 cells per well
- Rapid assay; get results in 2-4 hours



Xanthine Oxidase Fluorometric Assay Kit

10010895

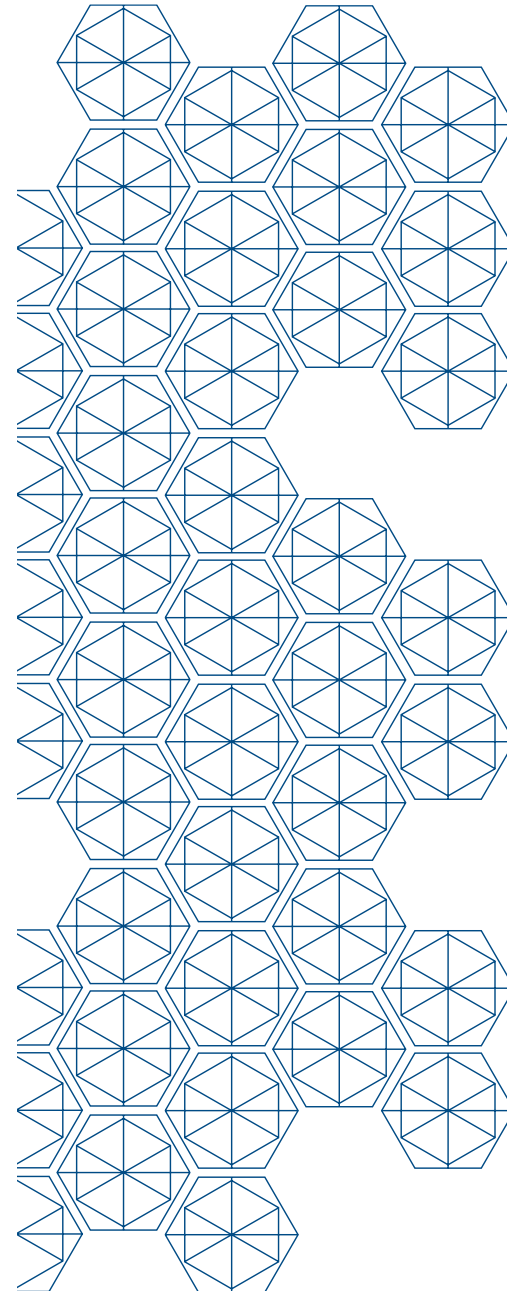
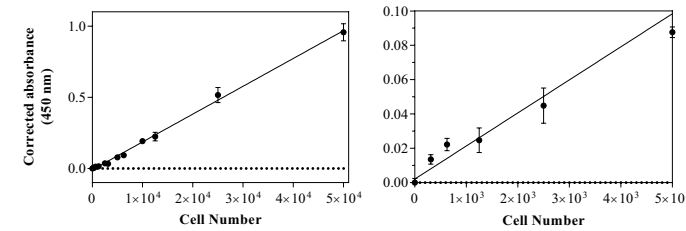
- Measure xanthine oxidase (XO) activity in plasma, serum, and tissue homogenates
- Assay 42 samples in duplicate
- Measure XO activity down to 10 μ U/ml
- Plate-based fluorometric measurement (ex 520-550 nm, em 585-595 nm)



XTT Cell Proliferation Assay Kit

10010200

- A colorimetric, non-radioactive assay for assessing cell viability and proliferation
- XTT is reduced to purple formazan by extracellular NADH from living cells
- Detect 500-100,000 cells per well
- Rapid assay; get results in about 4 hours



SAMPLE PREPARATION

Cysteinyl Leukotriene Affinity Sorbent 400396

- Mouse monoclonal anti-LTC₄/LTD₄/LTE₄ antibody covalently bound to Sepharose 4B
- For affinity purification of cysteinyl LTs from complex matrices

DNA Laddering Kit 660990

- Maximal extraction of small DNA fragments from samples
- Minimal intact chromatin contamination

Human Fibrinogen Affinity Sorbent 401272

- Immobilized human fibrinogen
- For the removal of antibodies that bind unmodified fibrinogen
- For use with the Anti-Citrullinated Human Fibrinogen Assay Kit (mouse) (Item No. 501270)

8-Isoprostane Affinity Column 401111

- For purification of 8-isoprostane from urine and plasma
- Contains 0.5 ml of 8-isoprostane monoclonal antibody covalently bound to Sepharose beads
- Binding capacity is 5 ng of 8-isoprostane

8-Isoprostane Affinity Purification Kit 501110

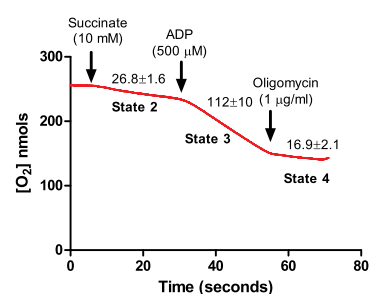
- Immunosorbent for the purification of 8-isoprostane from biological samples
- Employ a high affinity 8-isoprostane-specific monoclonal antibody

8-Isoprostane Affinity Sorbent 401113

- For purification of 8-isoprostane from urine and plasma
- Contains a 1 ml slurry of 8-isoprostane monoclonal antibody covalently bound to Sepharose beads in eicosanoid affinity column buffer
- Bind ~10 ng of 8-isoprostane/ml sorbent

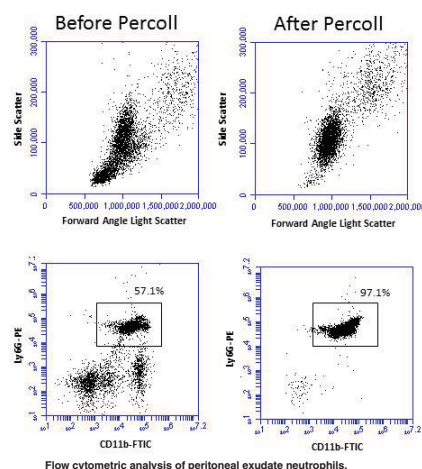
MitoCheck® Mitochondrial (Tissue) Isolation Kit 701010

- Isolate coupled mitochondria from fresh tissue samples
- Isolated mitochondria can be used with MitoCheck® Complex I-V Activity Assays Kits and Citrate Synthase Activity Assay Kit



Neutrophil (mouse) Isolation Kit 601070

- Isolate mouse neutrophils from peritoneal lavage or bone marrow
- Circumvents issues commonplace to isolating neutrophils from mouse blood
- Includes a Percoll density separation gradient
- Analyze purified neutrophils by flow cytometry



Nitrotyrosine Affinity Sorbent 389549

- Immobilized mouse anti-nitrotyrosine antibody
- For the capture of nitrated proteins from biological samples prior to SDS-PAGE

Nuclear Extraction Kit 10009277

- Isolate nuclear and cytoplasmic fractions from cell lysates and tissue homogenates
- Resulting isolates can be used in Transcription Factor Assay Kits
- Isolates can also be used for EMSA or western blotting
- Each kit provides reagents for 50 extractions from approximately 10 million cells

SPE Cartridges (C-18) (6 ml) 400020

- Solid phase extraction cartridges containing immobilized C-18
- For reverse-phase extraction of non-polar to moderately polar compounds
- Commonly used for the partial purification of eicosanoids

SPE Cartridges (Mixed Bed) 400021

- Solid phase extraction cartridges containing a mixture of non-polar and strong anion exchange chemistries
- For the partial purification of 11-dehydro TXB₂ from complex matrices

SCREENING LIBRARIES

Bio-active Lipid I Screening Library (96-Well) 10506

- Consists of 11 plates with >820 compounds
- Includes prostaglandins, thromboxanes, cannabinoids, D-myo-inositol-phosphates, phosphatidylinositol-phosphates, sphingolipids, ceramide derivatives, inhibitors, and receptor agonists and antagonists

Bio-active Lipid II Screening Library (96-Well) 10507

- Consists of 3 plates with >190 compounds
- Includes prostaglandins, isoprostanes, thromboxanes, leukotrienes, lipoxins, and several other complex lipid mediators

Epigenetics Screening Library (96-Well) 11076

- Contains >140 small molecules
- Includes compounds that modulate the activity of methyltransferases, demethylases, HATs, HDACs, and acetylated lysine reader proteins

Fatty Acid Screening Library (96-Well) 10504

- Contains >75 compounds
- Includes arachidonic, linoleic, eicosapentaenoic, stearic, α- and γ-linolenic, oleic, and palmitic acids

Kinase Screening Library (96-Well) 10505

- Consists of 2 plates with >140 specific and non-specific kinase inhibitors
- Includes dual specific threonine/tyrosine kinase inhibitors, selective MAPK inhibitors, p38 MAPK inhibitors, and PI3K inhibitors

Prostaglandin Screening Library I (96-Well) 10501

- Contains >70 compounds
- Includes the "F-series" prostaglandins and isoprostanes

Prostaglandin Screening Library II (96-Well) 10502

- Contains >60 compounds
- Includes the "D and E-series" prostaglandins

Prostaglandin Screening Library III (96-Well) 10503

- Contains >75 compounds
- Includes the "A and J-series" prostaglandins

Stem Cell Small Molecule Screening Library (96-Well) 9001827

- Contains >140 small molecules in two 96-well plates
- Includes compounds that induce differentiation, maintain self-renewal and proliferation, or improve the reprogramming efficiency of various stem cell populations

*The composition of the libraries will always vary somewhat depending upon our inventory.

A

7-AAD/CFSE Cell-Mediated Cytotoxicity Assay Kit	15
Acid Phosphatase Colorimetric Assay Kit	15
Aconitase Assay Kit	15
Adipogenesis Assay Kit	15
Adipolysis Assay Kit	15
Alanine Transaminase Colorimetric Activity Assay Kit	15
Aldehyde Dehydrogenase Activity Assay Kit	15
Aldosterone ELISA Kit	16
Annexin V FITC Assay Kit	16
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Anti-Ovalbumin IgE (mouse) ELISA Kit	16
Anti-Ovalbumin IgG ₁ (mouse) ELISA Kit	16
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Ascorbate Assay Kit	17
Autophagy/Cytotoxicity Dual Staining Kit	17
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Autotaxin Inhibitor Screening Assay Kit	17

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Bio-active Lipid I Screening Library (96-Well)	66
Bio-active Lipid II Screening Library (96-Well)	66
BRD2 bromodomain 1 TR-FRET Assay Kit	18
BRD2 bromodomain 2 TR-FRET Assay Kit	18
BRD2 bromodomains 1 and 2 TR-FRET Assay Kit	18
BRD3 bromodomain 1 TR-FRET Assay Kit	18
BRD3 bromodomain 2 TR-FRET Assay Kit	18
BRD3 bromodomains 1 and 2 TR-FRET Assay Kit	19
BRD4 bromodomain 1 TR-FRET Assay Kit	19
BRD4 bromodomain 2 TR-FRET Assay Kit	19
BRD4 bromodomains 1 and 2 TR-FRET Assay Kit	19
BRDT bromodomain 1 TR-FRET Assay Kit	19
BRG1 bromodomain TR-FRET Assay Kit	19
BRM bromodomain TR-FRET Assay Kit	20

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COX-1 (ovine) Inhibitor Screening Assay Kit	23

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Cyclic AMP Select ELISA Kit	25
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Glucose-6-Phosphate Fluorometric Assay Kit	30
Glucose Uptake Cell-Based Assay Kit	30
Glutaredoxin Fluorescent Activity Assay Kit	30
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Glutathione Reductase Assay Kit	31
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