

# QRFP-26RFa ELISA kit

## QRFP-26RFa (human) ELISA kit A05037

- ◆ Nonradioactive ELISA kit
- ◆ Quality Control included
- ◆ Cost effective



The **QRFP-26RFa** is a **neuropeptide of 26 amino acids** from the RFamides family (neuropeptide with an arginine and an amidated phenylalanine motif at its C-end).

The QRFP-26RFa has been discovered in 2003 in the brain of a European green frog. Since this date, the 26RFa has been characterized in many species like humans, rats, and chickens. The structural analysis of the peptide exhibits an amphipathic  $\alpha$ -helix in its central domain that plays a role in the interaction with its receptor: GPR103. The QRFP-26RFa is mainly produced in the hypothalamus and some peripheral tissues like the brainstem or the lateral horns of the spinal cord. In vivo studies in mice proved that the QRFP-26RFa is an orexigenic peptide by action on the NPY/proopiomelanocortin system and by inhibition of the glucose-induced insulin secretion. QRFP-26RFa has an action on the regulation of lipolysis in adipocytes of obese individuals. Moreover, some researchers study the roles of the QRFP-26RFa in sleep regulation and blood pressure regulation.

### ◆ FOCUS ON THE ASSAY

This Enzyme Immunometric Assay (ELISA) is based on the competition between unlabeled QRFP-26RFa (standard/QC/samples) and acetylcholinesterase (AChE) labeled QRFP-26RFa (tracer) for limited specific rabbit anti-26RFa antiserum sites.

The complex rabbit antiserum – QRFP-26RFa (free QRFP-26RFa or Tracer) binds to the mouse monoclonal anti-rabbit antibody coated in the well. The plate is washed to remove any unbound reagent, and Ellman's Reagent (enzymatic substrate for AChE and chromogen) is added to the wells.

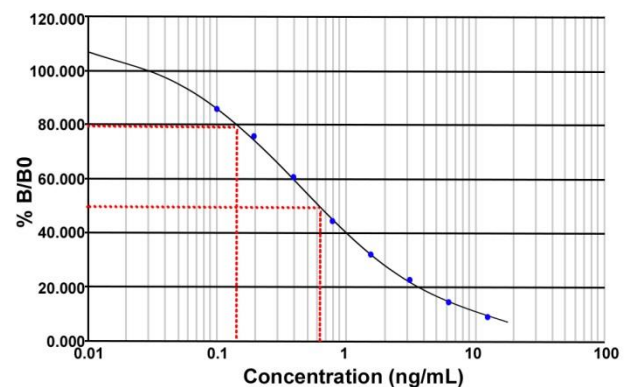
AChE tracer acts on the Ellman's Reagent to form a yellow compound that strongly absorbs at 414 nm. The intensity of the color, determined by spectrophotometry, is proportional to the amount of tracer bound to the well and is inversely proportional to the amount of free QRFP-26RFa (human) present in the well during the immunological incubation.

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## TECHNICAL DATA

- **Size:** 96 wells
- **Shelf life:** 15 months after production
- **Shipping:** Dry ice
- **IC50:** 0.62 ng/mL
- **Media application:** plasma
- **Limit of detection:** 0.07 pg/mL
- **Sample volume:** 50µL
- **Standard curve range:** 0.10 – 12.50 ng/mL
- **Stability:** store at -20°C
- **Preanalytical phase:** extraction required on Sep-Pak C18 cartridge

- **Specificity:**
  - 20RFa (mouse/rat): 10,0%
  - 43RFa (human): 37,3%
  - 43RFa (mouse/rat): 2,6%



## RELATED PRODUCTS

- **Obestatin (mouse, rat) ELISA kit** cat #A05035
- **Obestatin (human) ELISA kit** cat #A05036
- **CGRP (human) ELISA kit** cat #A05481
- **CGRP (rat) ELISA kit** cat #A05488
- **Leptin (human) ELISA kit** cat #A05175
- **Leptin (mouse, rat) ELISA kit** cat #A05176
- **AFABP (human) ELISA kit** cat #A05181
- **Leptin Receptor (h) ELISA kit** cat #A05175
- **Adiponectin (mouse) ELISA kit** cat #A05177
- **Resistin (rat) ELISA kit** cat #A05179
- **Sampling tubes with PHMB** cat #A05187
- **Insulin (mouse, rat) ELISA kit** cat #A05105
- **Growth Hormone (rat) ELISA kit** cat #D31009
- **Adiponectin High Sensitivity (human) ELISA kit** cat #A05186
- **Adiponectin (human) ELISA kit** cat #A05185