

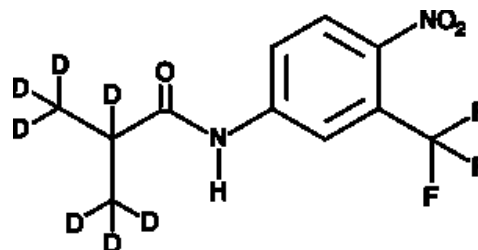


Flutamide-d₇

Cat No: 33541 - 500 µg

General Data

Shipping:	dry ice
Formulation:	A solid
Purity:	≥99% deuterated forms (d ₁ -d ₇)



Product Overview

Flutamide-d₇ is intended for use as an internal standard for the quantification of flutamide (Item No. 20359) by GC- or LC-MS. Flutamide is an androgen receptor antagonist ($K_{is} = 1.3$ and $7.5 \mu\text{M}$ for the cytosolic rat ventral prostate and anterior pituitary receptors, respectively) and prodrug form of 2-hydroxy flutamide (Item No. 15271).^{24727} Flutamide is converted to 2-hydroxy flutamide by the cytochrome P450 (CYP) isoform CYP1A2 in human liver microsomes.^{24727} It is cytotoxic to PC3 and LNCaP prostate cancer cells with IC₅₀ values of 98.8 and 81.8 μM , respectively.^{54819} Flutamide (50 mg/kg per day) reduces tumor growth in a PC-82 mouse xenograft model.^{54820} Formulations containing flutamide have been used in the treatment of prostate cancer.

FP/05/24

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Buyers agree to purchase the material subject to Purchasing Terms that can be found on our website. Seek appropriate training to safely handle this product under normal conditions. Use the recommended personal protective equipment to prevent chemical exposures.

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