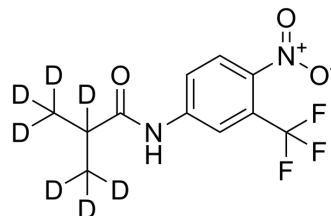


Flutamide-d₇

Cat. No.:	HY-B0022S
CAS No.:	223134-72-3
Molecular Formula:	C ₁₁ H ₄ D ₇ F ₃ N ₂ O ₃
Molecular Weight:	283.25
Target:	Androgen Receptor; Isotope-Labeled Compounds
Pathway:	Vitamin D Related/Nuclear Receptor; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Flutamide-d ₇ is deuterium labeled Flutamide.
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216.
- [2]. Crawford ED, et al. A controlled trial of leuprolide with and without flutamide in prostatic carcinoma. *N Engl J Med.* 1989 Aug 17;321(7):419-24.
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- [4]. Marchetti B, et al. Characteristics of flutamide action on prostatic and testicular functions in the rat. *J Steroid Biochem.* 1988 Jun;29(6):691-8.
- [5]. Simard J, et al. Characteristics of interaction of the antiandrogen flutamide with the androgen receptor in various target tissues. *Mol Cell Endocrinol.* 1986 Mar;44(3):261-70.

Caution: Product has not been fully validated for medical applications. For research use only.

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