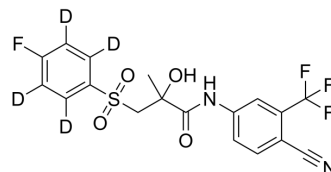


Bicalutamide-d₄

Cat. No.:	HY-14249S
CAS No.:	1185035-71-5
Molecular Formula:	C ₁₈ H ₁₀ D ₄ F ₄ N ₂ O ₄ S
Molecular Weight:	434.4
Target:	Androgen Receptor; Autophagy; Isotope-Labeled Compounds
Pathway:	Vitamin D Related/Nuclear Receptor; Autophagy; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Bicalutamide-d ₄ is the deuterium labeled Bicalutamide. Bicalutamide is an orally active non-steroidal androgen receptor (AR) antagonist. Bicalutamide can be used for the research of prostate cancer[1].
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]. Nicola J. Clegg,1 John Wongvipat,1,2 Jim Joseph, ARN-509: a novel anti-androgen for prostate cancer treatment. *Cancer Res.* 2012 March 15; 72(6): 1494-1503.

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

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