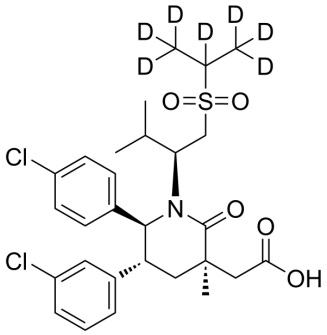
Navtemadlin-d_7

Cat. No.:	HY-12296S
Molecular Formula:	$C_{28}H_{28}D_7Cl_2NO_5S$
Molecular Weight:	575.6
Target:	MDM-2/p53; E1/E2/E3 Enzyme; Isotope-Labeled Compounds
Pathway:	Apoptosis; Metabolic Enzyme/Protease; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Navtemadlin-d_7 is the deuterium labeled Navtemadlin. Navtemadlin (AMG 232) is a potent, selective and orally available inhibitor of p53-MDM2 interaction, with an IC50 of 0.6 nM. Navtemadlin binds to MDM2 with a Kd of 0.045 nM[1][2].
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]. Canon J, et al. The MDM2 Inhibitor AMG 232 Demonstrates Robust Antitumor Efficacy and Potentiates the Activity of p53-Inducing Cytotoxic Agents. Mol Cancer Ther. 2015 Mar;14(3):649-58.

[3]. Rew Y, et al. Discovery of a small molecule MDM2 inhibitor (AMG 232) for treating cancer. J Med Chem. 2014 Aug 14;57(15):6332-41.

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