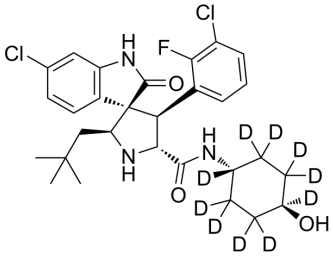
SAR405838-d_{10}

Cat. No.:	HY-18986S
Molecular Formula:	$C_{29}H_{24}D_{10}Cl_2FN_3O_3$
Molecular Weight:	572.56
Target:	Isotope-Labeled Compounds
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	SAR405838-d_{10} (MI-77301-d_{10}) is the deuterium labeled SAR405838 (HY-18986). SAR405838 (MI-77301), an analog of MI-773, is a highly potent and selective MDM2-p53 interaction inhibitor. SAR405838 binds to MDM2 with a K_i of 0.88 nM. SAR405838 induces apoptosis and has potent antitumor activity[1][2][3].
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]. Wang S, et al. SAR405838: an optimized inhibitor of MDM2-p53 interaction that induces complete and durable tumor regression. Cancer Res. 2014 Oct 15;74(20):5855-5865.

[2]. Hoffman-Luca CG, et al. Elucidation of Acquired Resistance to Bcl-2 and MDM2 Inhibitors in Acute Leukemia In Vitro and In Vivo. Clin Cancer Res. 2015 Jun 1;21(11):2558-2568.

[3]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-220.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA