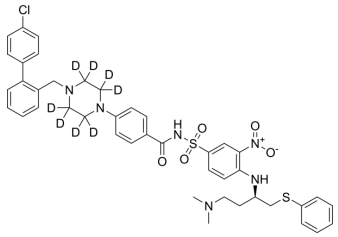
ABT-737-d_8

Cat. No.:	HY-50907S		
CAS No.:	1217686-68-4		
Molecular Formula:	$C_{42}H_{37}D_8ClN_6O_5S_2$		
Molecular Weight:	821.48		
Target:	Biochemical Assay Reagents		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	ABT 737-d_8 is the deuterium labeled ABT-737. ABT-737, a BH3 mimetic, is a potent Bcl-2, Bcl-x_L and Bcl-w inhibitor with EC_{50} s of 30.3 nM, 78.7 nM, and 197.8 nM, respectively. ABT-737 induces the disruption of the BCL-2/BAX complex and BAK-dependent but BIM-independent activation of the intrinsic apoptotic pathway. ABT-737 induces autophagy and has the potential for acute myeloid leukemia (AML) research[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]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.

[2]. Ahamed Saleem, et al. Effect of dual inhibition of apoptosis and autophagy in prostate cancer. Prostate. 2012 Sep 1;72(12):1374-81.

[3]. Clerc P, et al. Polster BM.Rapid Detection of an ABT-737-Sensitive Primed for Death State in Cells Using Microplate-Based Respirometry.PLoS One. 2012;7(8):e42487. Epub 2012 Aug 3.

[4]. Konopleva M, et al. Mechanisms of apoptosis sensitivity and resistance to the BH3 mimetic ABT-737 in acute myeloid leukemia. Cancer Cell. 2006 Nov;10(5):375-88.

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