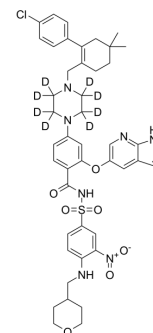


Venetoclax-d8

Cat. No.:	HY-15531S		
CAS No.:	1257051-06-1		
Molecular Formula:	C ₄₅ H ₄₂ D ₈ ClN ₇ O ₇ S		
Molecular Weight:	876.49		
Target:	Autophagy; Bcl-2 Family		
Pathway:	Autophagy; Apoptosis		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	Venetoclax-d ₈ is deuterium labeled Venetoclax. Venetoclax (ABT-199; GDC-0199) is a highly potent, selective and orally bioavailable Bcl-2 inhibitor with a K _i of less than 0.01 nM. Venetoclax induces autophagy[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]. Bi C, et al. Inhibition of 4EBP phosphorylation mediates the cytotoxic effect of mechanistic target of rapamycin kinase inhibitors in aggressive B-cell lymphomas. *Haematologica.* 2017 Apr;102(4):755-764.
- [3]. Peirs S, et al. ABT-199 mediated inhibition of BCL-2 as a novel therapeutic strategy in T-cell acute lymphoblastic leukemia. *Blood.* 2014 Dec 11;124(25):3738-47.
- [4]. Souers AJ, et al. ABT-199, a potent and selective BCL-2 inhibitor, achieves antitumor activity while sparing platelets. *Nat Med.* 2013 Feb;19(2):202-8.

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

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