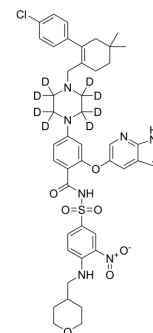


Venetoclax-d₈

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



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (114.09 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.1409 mL	5.7046 mL	11.4091 mL
5 mM	0.2282 mL	1.1409 mL	2.2818 mL
10 mM	0.1141 mL	0.5705 mL	1.1409 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Venetoclax-d₈ 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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