



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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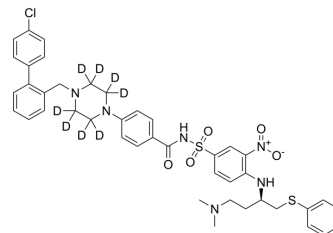
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ABT-737-d₈

Cat. No.:	HY-50907S		
CAS No.:	1217686-68-4		
Molecular Formula:	C ₄₂ H ₃₇ D ₈ ClN ₆ O ₅ S 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



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (60.87 mM; Need ultrasonic)
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	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.2173 mL	6.0866 mL	12.1732 mL
	5 mM	0.2435 mL	1.2173 mL	2.4346 mL
	10 mM	0.1217 mL	0.6087 mL	1.2173 mL

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

BIOLOGICAL ACTIVITY

Description

ABT 737-d₈ is the deuterium labeled ABT-737. ABT-737, a BH3 mimetic, is a potent Bcl-2, Bcl-x_L and Bcl-w inhibitor with EC₅₀ 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.

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

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