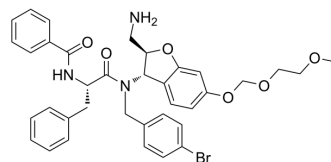


MSN-125

Cat. No.:	HY-120079
CAS No.:	1592908-16-1
Molecular Formula:	C ₃₆ H ₃₈ BrN ₃ O ₆
Molecular Weight:	688.61
Target:	Bcl-2 Family; Apoptosis
Pathway:	Apoptosis
Storage:	4°C, stored under nitrogen, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 200 mg/mL (290.44 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		1.4522 mL	7.2610 mL	14.5220 mL
		5 mM		0.2904 mL	1.4522 mL	2.9044 mL
	10 mM		0.1452 mL	0.7261 mL	1.4522 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 4.5 mg/mL (6.53 mM); Suspended solution; Need ultrasonic					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 4.5 mg/mL (6.53 mM); Suspended solution; Need ultrasonic					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 4.5 mg/mL (6.53 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	MSN-125 is a potent Bax and Bak oligomerization inhibitor. MSN-125 prevents mitochondrial outer membrane permeabilization (MOMP) with an IC ₅₀ of 4 μM. MSN-125 potently inhibits Bax/Bak-mediated apoptosis in HCT-116, BMK Cells, and primary cortical neurons, protects primary neurons against glutamate excitotoxicity ^[1] .	
IC₅₀ & Target	Bax	Bak
In Vitro	MSN-125 inhibits tBid/Bax-mediated MOMP in a concentration-dependent manner ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Niu X, et al. A Small-Molecule Inhibitor of Bax and Bak Oligomerization Prevents Genotoxic Cell Death and Promotes Neuroprotection. *Cell Chem Biol.* 2017 Apr 20;24(4):493-506.e5.

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

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