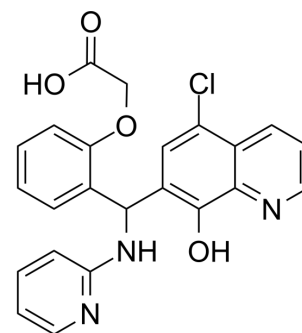


Mcl1-IN-1

Cat. No.:	HY-16669		
CAS No.:	713492-66-1		
Molecular Formula:	C ₂₃ H ₁₈ ClN ₃ O ₄		
Molecular Weight:	435.86		
Target:	Bcl-2 Family		
Pathway:	Apoptosis		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 50 mg/mL (114.72 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.2943 mL	11.4716 mL	22.9431 mL
	5 mM	0.4589 mL	2.2943 mL	4.5886 mL
	10 mM	0.2294 mL	1.1472 mL	2.2943 mL

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

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.5 mg/mL (5.74 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (5.74 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Mcl1-IN-1 is an inhibitor of myeloid cell factor 1 (Mcl-1) (IC₅₀=2.4 μM).

IC₅₀ & Target

Mcl-1
 2.4 μM (IC₅₀)

In Vitro

Mcl1-IN-1 (Compound 1) is a Mcl-1 inhibitor, which demonstrates good Mcl-1 inhibition (IC₅₀=2.4 μM) with no appreciable inhibition of Bcl-xL at 100 μM^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Richard DJ, et al. Hydroxyquinoline-derived compounds and analoguing of selective Mcl-1 inhibitors using a functional biomarker. Bioorg Med Chem. 2013 Nov 1;21(21):6642-9.

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