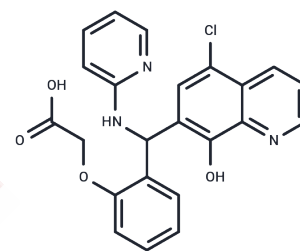


Mcl1-IN-1

Chemical Properties

CAS No. : 713492-66-1
 Formula: C₂₃H₁₈ClN₃O₄
 Molecular Weight: 435.86
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
 Actual storage temperature shall be subject to the COA.



Biological Description

Description	Mcl1-IN-1 is a myeloid cell factor 1 inhibitor (IC ₅₀ =2.4 μM).
Targets(IC ₅₀)	Bcl-2 Family,Others
In vitro	Mcl1-IN-1 is an Mcl-1 inhibitor, which shows good Mcl-1 inhibition (IC ₅₀ =2.4 μM). It also has no appreciable inhibition of Bcl-xL at 100 μM.

Solubility Information

Solubility	DMSO: 50 mg/mL (114.72 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 2.5 mg/mL (5.74 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0459 mL	0.2294 mL	0.4589 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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