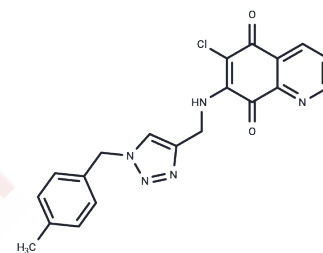


M2N12

Chemical Properties

CAS No. :	2376577-06-7
Formula:	C ₂₀ H ₁₆ ClN ₅ O ₂
Molecular Weight:	393.83
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	M2N12 is a potent and highly selective inhibitor of cell division cycle 25C protein phosphatase (Cdc25C, IC ₅₀ = 0.09 μM) and also exhibits anti-tumor activity. Additionally, M2N12 shows promising activity against Cdc25A (IC ₅₀ = 0.53 μM) and Cdc25B (IC ₅₀ = 1.39 μM).
Targets(IC ₅₀)	CDK,Phosphatase
In vitro	M2N12 has cytotoxic activity against five tumor cell lines and a normal cell line including A-549(IC ₅₀ = 3.92 μM), MDA-MB-231(IC ₅₀ = 4.63 μM), KB(IC ₅₀ = 5.05 μM), KB-VIN(IC ₅₀ = 6.81 μM), MCF-7(IC ₅₀ = 4.71 μM) and HBE(IC ₅₀ = 6.00 μM)[1].

Solubility Information

Solubility	DMSO: 8 mg/mL (20.31 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5392 mL	12.6958 mL	25.3917 mL
5 mM	0.5078 mL	2.5392 mL	5.0783 mL
10 mM	0.2539 mL	1.2696 mL	2.5392 mL
50 mM	0.0508 mL	0.2539 mL	0.5078 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

Jing L, et al. Identification of highly potent and selective Cdc25 protein phosphatases inhibitors from miniaturization click-chemistry-based combinatorial libraries. Eur J Med Chem. 2019 Sep 14;183:111696.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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