

MP07-66

Chemical Properties

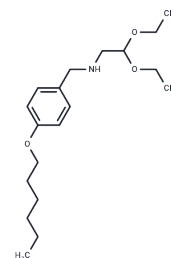
CAS No. : 1938056-90-6

Formula: C₁₉H₃₃N₃O₃

Molecular Weight: 323.47

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	MP07-66 is a novel FTY720-analog devoid of immunosuppressive effects leads to the reactivation of PP2A, which in turn triggers apoptosis of CLL cells.
Targets(IC50)	Phosphatase
In vitro	CLL cells were incubated with increasing concentrations of MP07-66 (0-16 μ M) for 24 and 48 hours and then subject to annexin V-PI flow cytometry. The level of apoptosis reached 50% and 80%, at 24 hours and 48 hours, respectively, at a MP07-66 concentration as high as 16 μ M, which paralleled PARP cleavage, a marker of caspase-dependent apoptosis. In addition, the phosphorylation status of PP2A targets, namely Akt, GSK-3, and SHP-1, was negatively affected by the treatment with MP07-66, triggering known downstream events promoting apoptosis, such as Mcl-1 degradation and caspase-3 activation[1].

Solubility Information

Solubility	DMSO: 250 mg/mL (772.87 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	3.0915 mL	15.4574 mL	30.9148 mL
5 mM	0.6183 mL	3.0915 mL	6.183 mL
10 mM	0.3091 mL	1.5457 mL	3.0915 mL
50 mM	0.0618 mL	0.3091 mL	0.6183 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

Zonta F, et al. Lyn sustains oncogenic signaling in chronic lymphocytic leukemia by strengthening SET-mediated inhibition of PP2A. *Blood*. 2015;125(24):3747-3755.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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