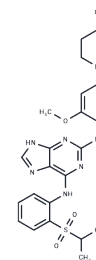


Mps1-IN-3

Chemical Properties

CAS No. :	1609584-72-6
Formula:	C ₂₆ H ₃₁ N ₇ O ₄ S
Molecular Weight:	537.63
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	Mps1-IN-3 is an effective and selective inhibitor of MPS1 kinase (IC ₅₀ : 50 nM).
Targets(IC ₅₀)	Kinesin
In vitro	Mps1-IN-3 inhibits the proliferation of U251 glioblastoma cells (IC ₅₀ : appr 5 μM). Mps1-IN-3 is an effective inhibitor of MPS1 kinase (IC ₅₀ : 50 nM). Mps1-IN-3 (2 μM) can completely abrogates checkpoint.
In vivo	Mps1-IN-3 (2 mg/kg, i.v.) enhances the sensitivity of glioblastoma cells in murine tumor models, extends survival, and exhibits no toxicity.

Solubility Information

Solubility	DMSO: 60 mg/mL (111.6 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 mg/mL (3.72 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	1.860 mL	9.3001 mL	18.6002 mL
5 mM	0.372 mL	1.860 mL	3.720 mL
10 mM	0.186 mL	0.930 mL	1.860 mL
50 mM	0.0372 mL	0.186 mL	0.372 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

Tannous BA, et al. Effects of the selective MPS1 inhibitor MPS1-IN-3 on glioblastoma sensitivity to antimetabolic drugs. J Natl Cancer Inst. 2013 Sep 4;105(17):1322-31.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481