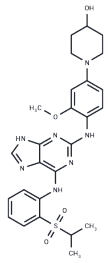
Data Sheet (Cat.No.T16130)

TargetMol

Mps1-IN-3

Chemical Properties



CAS No. : 1609584-72-6

Formula: C26H31N7O4S

Molecular Weight: 537.63

Appearance: no data available

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

Biological Description

Description	Mps1-IN-3 is an effective and selective inhibitor of MPS1 kinase (IC50: 50 nM).
Targets(IC50)	Kinesin
In vitro	Mps1-IN-3 inhibits the proliferation of U251 glioblastoma cells (IC50: appr 5 μM). Mps1-IN-3 is an effective inhibitor of MPS1 kinase (IC50: 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)

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.

Reference

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

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