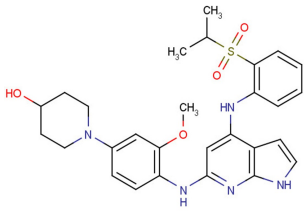
Data Sheet (Cat.No.T12102)

TargetMol
A DRUG SCREENING EXPERT

Mps1-IN-1

Chemical Properties



CAS No.:	1125593-20-5
Formula:	C28H33N5O4S
Molecular Weight:	535.66
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	Mps1-IN-1 is a potent, selective and ATP-competitive inhibitor of Mps1 kinase (IC50 : 367 nM)
Targets(IC_{50})	Mps1: 27 nM (kd) ALK: 21 nM (kd) LTK: 29 nM (kd) PYK2: 280 nM (kd) FAK: 440 nM (kd) IGF1R: 750 nM (kd) INSR: 470 nM (kd) CLK1: 1900 nM (kd) ERK2: 2900 nM (kd) INSRR: 1200 nM (kd) TNK1: 2600 nM (kd) TNK2: 3100 nM (kd) GAK: 1100 nM (kd)
In vitro	Mps1-IN-1 is a potent, selective and ATP-competitive inhibitor of Mps1 kinase(IC50 and a Kd of 367 nM and 27 nM). Mps1-IN-1 also has high affinity for ALK, and LTK, with Kds of 21 and 39 nM, respectively[1].

Solubility Information

Solubility	DMSO: 39 mg/mL (72.81 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.867 mL	9.334 mL	18.669 mL
5 mM	0.373 mL	1.867 mL	3.734 mL
10 mM	0.187 mL	0.933 mL	1.867 mL
50 mM	0.037 mL	0.187 mL	0.373 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Kwiatkowski N, et al. Small-molecule kinase inhibitors provide insight into Mps1 cell cycle function. Nat Chem Biol. 2010 May;6(5):359-68.

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