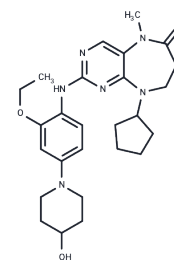


Mps1-IN-2

Chemical Properties

CAS No. :	1228817-38-6
Formula:	C ₂₆ H ₃₆ N ₆ O ₃
Molecular Weight:	480.6
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-2 is a potent, selective, and ATP-competitive inhibitor of both Mps1 and Plk1.
Targets(IC50)	Kinesin,PLK
Kinase Assay	mTOR activity is assayed using LanthaScreen Kinase kit reagents. PI(3)K α , β , γ and δ activity are assayed using the PI(3)K HTRF assay kit. The concentration of INK128 necessary to achieve inhibition of enzyme activity by 50% (IC50) is calculated using concentrations ranging from 20 μ M to 0.1 nM (12-point curve). IC50 values are determined using a nonlinear regression model.

Solubility Information

Solubility	DMSO: 14.3 mg/mL (29.75 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: 1 mg/mL (2.08 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	2.0807 mL	10.4037 mL	20.8073 mL
5 mM	0.4161 mL	2.0807 mL	4.1615 mL
10 mM	0.2081 mL	1.0404 mL	2.0807 mL
50 mM	0.0416 mL	0.2081 mL	0.4161 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

Kwiatkowski N, et al. Nat Chem Biol. 2010 May;6(5):359-68.

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