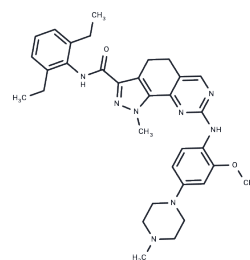


MPS1/TTK Inhibitor

Chemical Properties

CAS No. :	1202055-39-7
Formula:	C33H40N8O2
Molecular Weight:	580.72
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/TTK inhibitor is an inhibitor of monopolar spindle 1 (MPS1/TTK; IC50 = 5.8 nM), a kinase involved in mitotic spindle checkpoint signaling that is overexpressed in certain cancerous tumors. It inhibits MPS1 phosphorylation of kinetochore scaffold 1 (KNL1) and increases the rate of mitosis and the number of cells entering anaphase within 15 minutes, indicating MPS1 checkpoint inhibition, when used at a concentration of 100 nM. MPS1/TTK inhibitor (50 and 100 nM) increases the number of missegregated chromosomes, with an increased number of errors at 100 nM compared with 50 nM. It also inhibits colony formation of DLD1, HCT116, and U2OS cells (IC50s = 24.6, 20.1, and 20.6 nM, respectively).
Targets(IC50)	Others

Solubility Information

Solubility	H2O: Slightly soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.722 mL	8.610 mL	17.220 mL
5 mM	0.3444 mL	1.722 mL	3.444 mL
10 mM	0.1722 mL	0.861 mL	1.722 mL
50 mM	0.0344 mL	0.1722 mL	0.3444 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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