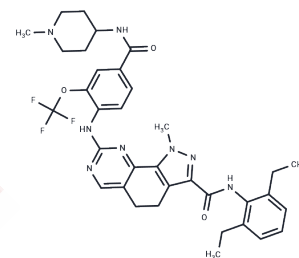


NMS-P715

Chemical Properties

CAS No. :	1202055-32-0
Formula:	C ₃₅ H ₃₉ F ₃ N ₈ O ₃
Molecular Weight:	676.73
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	NMS-P715 is a highly selective and ATP-competitive MPS1 inhibitor (IC ₅₀ of 182 nM).
Targets (IC ₅₀)	Casein Kinase, MELK, MAPK, Kinesin
In vitro	NMS-P715 (1 μM) inhibits the proliferation of HCT116 cells. And it causes mitotic acceleration in U2OS cells overexpressing YFP-α-tubulin, induces aneuploidy. NMS-P715 (0.5, 1 μM) affects mitotic checkpoint complex (MCC) stability and cdc20 ubiquitylation [1].
In vivo	NMS-P715 (90 mg/kg, p.o.) is well tolerated and causes no signs of body weight loss or other overt toxicities in an A2780 ovary carcinoma xenograft model [1].

Solubility Information

Solubility	DMSO: 2 mg/mL (2.96 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4777 mL	7.3885 mL	14.7769 mL
5 mM	0.2955 mL	1.4777 mL	2.9554 mL
10 mM	0.1478 mL	0.7388 mL	1.4777 mL
50 mM	0.0296 mL	0.1478 mL	0.2955 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

Colombo R, et al. Targeting the mitotic checkpoint for cancer therapy with NMS-P715, an inhibitor of MPS1 kinase. Cancer Res. 2010 Dec 15;70(24):10255-64.

Slee RB, et al. Selective inhibition of pancreatic ductal adenocarcinoma cell growth by the mitotic MPS1 kinase inhibitor NMS-P715. Mol Cancer Ther. 2014 Feb;13(2):307-315.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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