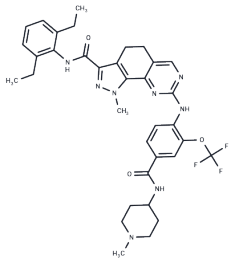
# Data Sheet (Cat.No.T12237)

TargetMol
YOUR TARGET MOLECULES

NMS-P715

## Chemical Properties



CAS No. : 1202055-32-0

Formula: C35H39F3N8O3

Molecular Weight: 676.73

Appearance: no data available

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

## Biological Description

| | |
|---|---|
| Description | NMS-P715 is a highly selective and ATP-competitive MPS1 inhibitor(IC50 of 182 nM). |
| Targets(IC50) | Casein Kinase,Kinesin,MELK,MAPK |
| 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.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

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.

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.



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