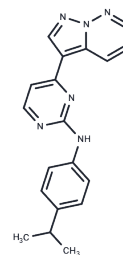


UNC10112785

Chemical Properties

CAS No. : 748142-06-5
 Formula: C₁₉H₁₈N₆
 Molecular Weight: 330.39
 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	UNC10112785 is a novel and potent inhibitor of CDK8, CDK19, and CDK9 with IC ₅₀ values of 1.05 nM, 2.67 nM, and 19.9 nM, respectively, inducing MYC protein loss via both transcriptional and post-translational mechanisms. UNC10112785 suppresses pancreatic ductal adenocarcinoma (PDAC) growth under both anchorage-dependent and anchorage-independent conditions, causing substantial MYC depletion in two-dimensional and three-dimensional cell culture models.
Targets(IC ₅₀)	CDK
In vitro	In HCT116 colon cancer cells, UNC10112785 has antiproliferative activity with IC ₅₀ values between 5-50 nM [1].
In vivo	In preclinical xenograft models of colorectal and pancreatic cancer, systemic administration of this class of inhibitors (UNC10112785) leads to tumor growth delay [2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0267 mL	15.1336 mL	30.2673 mL
5 mM	0.6053 mL	3.0267 mL	6.0535 mL
10 mM	0.3027 mL	1.5134 mL	3.0267 mL
50 mM	0.0605 mL	0.3027 mL	0.6053 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

Clarke P A, et al. Abstract PR02: Identification of a potent and selective chemical probe for exploring the role of CDK8/19 in cancer biology[J]. Molecular Cancer Therapeutics, 2015, 14(12_Supplement_2): PR02-PR02.

Putz E M, et al. CDK8-mediated STAT1-S727 phosphorylation restrains NK cell cytotoxicity and tumor surveillance[J]. Cell reports, 2013, 4(3): 437-444.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481