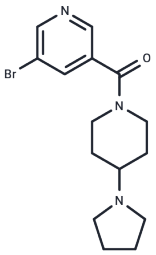
Data Sheet (Cat.No.T2252)

TargetMol

UNC 669

Chemical Properties



CAS No. : 1314241-44-5

Formula: C15H20BrN3O

Molecular Weight: 338.24

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	UNC 669 is an effective and specific MBT (malignant brain tumor) inhibitor with IC50 of 4.2/3.1 uM for L3MBTL1/3.
Targets(IC50)	Epigenetic Reader Domain
Kinase Assay	In vitro Enzyme Assays.: All in vitro enzyme assays are done at Upstate Biotechnology with the exception of InsR and IGF-1R. To determine the IC50 of TAE684 against InsR and IGF-1R a homogeneous time-resolved fluorescence assay is performed. ATP (10 mM) and 20 mg/ml biotinylated PolyEY (Glu, Tyr 4:1) are combined with 50 nL of serial dilutions of TAE684 (10-500 nM) and 4 ng of InsR enzyme in the presence of the kinase reaction buffer (20 mM Tris醋Cl, pH 7.5/10 mM MgCl2/3 mM MnCl2/1 mM DTT/10 mM NaVO4/0.1 mg/ml of BSA). Assays are incubated for 1 hour at ambient temperature. Reactions are terminated by adding 10 mL of the detection solution containing 50 mM EDTA, 500 mM KF, 0.5 mg/ml of BSA, 5 mg/mL Eu3+ cryptate-labeled anti-phosphotyrosine antibody Mab PT66-K, and 5 mg/mL Streptavidin-XLent. The reaction is incubated for half an hour, and fluorescence signals are read on Analyst GT.

Solubility Information

Solubility	DMSO: 9 mg/mL (26.61 mM),Sonication is recommended. Ethanol: 63 mg/mL (186.26 mM),Sonication is recommended. H2O: < 1 mg/mL (insoluble or slightly soluble), (< 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 (2.96 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.9565 mL	14.7824 mL	29.5648 mL
5 mM	0.5913 mL	2.9565 mL	5.913 mL
10 mM	0.2956 mL	1.4782 mL	2.9565 mL
50 mM	0.0591 mL	0.2956 mL	0.5913 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

Herold JM, et al. J Med Chem. 2011, 54(7), 2504-2511.