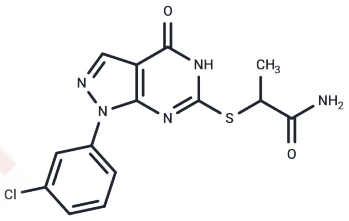
Data Sheet (Cat.No.T27554)

TargetMol

HS38

Chemical Properties



CAS No. : 1030203-81-6

Formula: C14H12ClN5O2S

Molecular Weight: 349.8

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	HS38 is a specific and ATP-competitive DAPK inhibitor with Kds of 300 nM, 200 nM, and 280 nM for DAPK1, PIM3, and ZIPK. HS38 can be used in studies about smooth muscle-related disorders.
Targets(IC50)	DAPK
In vitro	HS38 shows a Kd of 79 nM for DAPK2. In human aortic SM cells, HS38 reduces relative RLC20 phosphorylation in both the basal and S1P-activated states. In Ca2+-sensitized rabbit ileum, HS38 reduces the contractile force, MYPT1 phosphorylation, and RLC20 phosphorylation[1].

Solubility Information

Solubility	DMSO: 6.4 mg/mL (18.3 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8588 mL	14.2939 mL	28.5878 mL
5 mM	0.5718 mL	2.8588 mL	5.7176 mL
10 mM	0.2859 mL	1.4294 mL	2.8588 mL
50 mM	0.0572 mL	0.2859 mL	0.5718 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

MacDonald JA, et al. A Small Molecule Pyrazolo[3,4-d]Pyrimidinone Inhibitor of Zipper-Interacting Protein Kinase Suppresses Calcium Sensitization of Vascular Smooth Muscle. Mol Pharmacol. 2016 Jan;89(1):105-17.
David A Carlson, et al. Fluorescence Linked Enzyme Chemoproteomic Strategy for Discovery of a Potent and Selective DAPK1 and ZIPK Inhibitor. ACS Chem Biol. 2013 Dec 20; 8(12): 2715-2723.
Lorenz E, Lastovica A, Owen RJ. Subtyping of Campylobacter jejuni Penner serotypes 9, 38 and 63 from human infections, animals and water by pulsed field gel electrophoresis and flagellin gene analysis. Lett Appl Microbiol. 1998 Mar;26(3):179-82.

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