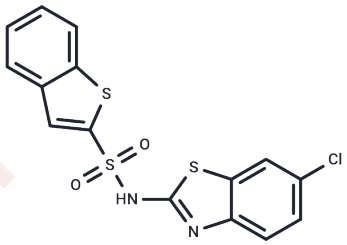
Data Sheet (Cat.No.T16450)

TargetMol

PDK1-IN-RS2

Chemical Properties



CAS No. : 1643958-89-7

Formula: C15H9ClN2O2S3

Molecular Weight: 380.89

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	PDK1-IN-RS2 inhibits the activation of the downstream kinases S6K1 by PDK1. PDK1-IN-RS2 is a mimic of the peptide docking motif (PIFtide) and is a substrate-selective PDK1 inhibitor (Kd: 9 μM).
Targets(IC50)	PDK
In vitro	Because the sulfonamide is likely ionized under the crystallization conditions, the sulfonyl group of PDK1-IN-RS2 interacts with Arg131 through a salt bridge. PDK1-IN-RS2 stimulates the catalytic activity of PDK1 toward a peptide substrate by sixfold [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6254 mL	13.1271 mL	26.2543 mL
5 mM	0.5251 mL	2.6254 mL	5.2509 mL
10 mM	0.2625 mL	1.3127 mL	2.6254 mL
50 mM	0.0525 mL	0.2625 mL	0.5251 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

Rettenmaier TJ, et al. A small-molecule mimic of a peptide docking motif inhibits the protein kinase PDK1. Proc Natl Acad Sci U S A. 2014 Dec 30;111(52):18590-5.

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