Data Sheet (Cat.No.T201273)

TargetMol

PT109

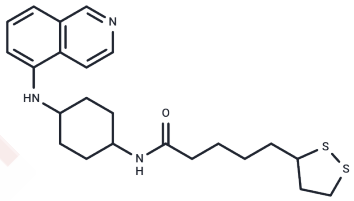
Chemical Properties

CAS No. : 2059104-90-2

Formula: C23H31N3OS2

Molecular Weight: 429.64

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	PT109 is a multikinase inhibitor that targets JNK and other kinases, playing a crucial role in anti-inflammatory, antioxidative, neurogenic, and synaptogenic processes. Specifically, PT109 inhibits JNK isoforms with the following IC50 values: JNK1 at 0.143 μM, JNK2 at 0.831 μM, and JNK3 at 0.285 μM. It also inhibits SGK isoforms (SGK1: IC50=1.34 μM; SGK2: IC50=5.6 μM; SGK3: IC50=26.4 μM) and ROCK2 (IC50=34 μM). Additionally, PT109 reprograms polymorphic glioblastoma multiforme (GBM) into oligodendroglia via the PTBP1/PKM1/2 pathway and alters the metabolic pattern of GBM to exhibit antiglioma activity.
Targets(IC50)	JNK,ROCK,SGK

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3275 mL	11.6377 mL	23.2753 mL
5 mM	0.4655 mL	2.3275 mL	4.6551 mL
10 mM	0.2328 mL	1.1638 mL	2.3275 mL
50 mM	0.0466 mL	0.2328 mL	0.4655 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

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