Data Sheet (Cat.No.T62011)

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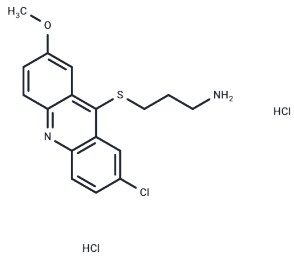
LDN-209929 dihydrochloride

Chemical Properties



CAS No. : 1784281-97-5

Formula: C17H19Cl3N2OS

Molecular Weight: 405.77

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	LDN-209929 dihydrochloride is a potent and selective inhibitor of haspin kinase (IC50= 55 nM). LDN-209929 dihydrochloride shows180-fold selectivity verses DYRK2 (IC50= 9.9 μM).
In vitro	Haspin, a Haploid Germ Cell-Specific Nuclear Protein Kinase, is a serine/threonine kinase, expressed across various tissues, including testis, bone marrow, thymus, and spleen. It is crucial for mitotic processes, especially for phosphorylating histone H3 at Thr-3 (H3T3) during G2/early prophase. Its activity peaks in prometaphase/metaphase and decreases by anaphase [1]. DYRKs, part of the CMGC family of ePKs, are categorized into class 1 (DYRK1A and 1B) and class 2 (DYRK2, 3, and 4) kinases. Their functionality relies on the autophosphorylation of a vital activation loop tyrosine during protein synthesis [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4645 mL	12.3223 mL	24.6445 mL
5 mM	0.4929 mL	2.4645 mL	4.9289 mL
10 mM	0.2464 mL	1.2322 mL	2.4645 mL
50 mM	0.0493 mL	0.2464 mL	0.4929 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.

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