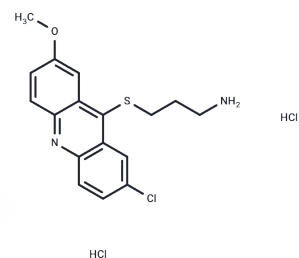


## LDN-209929 dihydrochloride

## Chemical Properties

CAS No. :	1784281-97-5
Formula:	C17H19Cl3N2OS
Molecular Weight:	405.77
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	LDN-209929 dihydrochloride is a potent and selective haspin kinase inhibitor with an IC50 value of 55 nM and approximately 180-fold selectivity over DYRK2 (IC50 = 9.9 μM), LDN-209929 represents an optimized analogue of LDN-192960 that is applied in cell cycle and mitotic regulation research to investigate haspin-dependent phosphorylation events.
Targets(IC50)	Haspin Kinase
In vitro	In kinase inhibition assays, LDN-209929 dihydrochloride functioned as a potent inhibitor of Haspin and DYRK2. It effectively disrupted the phosphorylation of Histone H3 at Threonine 3 (H3T3) and blocked the autophosphorylation of the critical tyrosine residue in the activation loop of DYRK2 [1].

## Solubility Information

Solubility	DMSO: 25 mg/mL (61.61 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

## 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.

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

Gregory D Cuny, et al. Structure-activity Relationship Study of Acridine Analogs as Haspin and DYRK2 Kinase Inhibitors. Bioorg Med Chem Lett

Katrin Kestav, et al. Structure, Roles and Inhibitors of a Mitotic Protein Kinase Haspin. Curr Med Chem. 2017;24(21): 2276-2293.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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

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