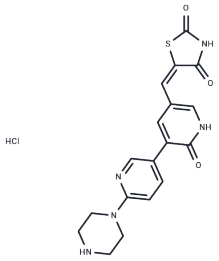
# Data Sheet (Cat.No.T39860)

TargetMol

## Protein kinase inhibitors 1 hydrochloride

### Chemical Properties



CAS No. : 2321337-71-5

Formula: C18H18ClN5O3S

Molecular Weight: 419.88

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 | Protein Kinase Inhibitors 1 Hydrochloride effectively inhibits HIPK2, demonstrating high potency with IC50 values of 136 nM for HIPK1 and 74 nM for HIPK2, alongside a dissociation constant (Kd) of 9.5 nM for HIPK2. |
| Targets(IC50) | Others,DYRK |
| In vitro | Protein kinase inhibitors 1 hydrochloride displays strong inhibitory action against HIPK2, with IC50 values of 136 nM and 74 nM for HIPK1 and HIPK2, respectively, and exhibits high affinity for HIPK2, as indicated by a Kd of 9.5 nM. This compound, also known as Compound A64, is ineffective as a Cdk1 inhibitor, with an IC50 exceeding 10 μM. A64 demonstrates moderate selectivity when tested against a range of kinases, showing Kd values ranging from 3.7 nM for PIM3 to 390 nM for ERK8, along with IC50 values of 19 nM for DYRK1A, 62 nM for DYRK1B, and 74 nM for HIPK2. |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 2.3816 mL | 11.9082 mL | 23.8163 mL |
| 5 mM | 0.4763 mL | 2.3816 mL | 4.7633 mL |
| 10 mM | 0.2382 mL | 1.1908 mL | 2.3816 mL |
| 50 mM | 0.0476 mL | 0.2382 mL | 0.4763 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

Miduturu CV, et al. High-throughput kinase profiling: a more efficient approach toward the discovery of new kinaseinhibitors. Chem Biol. 2011 Jul 29;18(7):868-79.

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