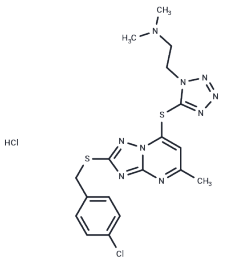
Data Sheet (Cat.No.T13349)

TargetMol

WS-383

Chemical Properties



CAS No. : 2247544-02-9

Formula: C18H21Cl2N9S2

Molecular Weight: 498.46

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	WS-383 is a selective, potent and reversible DCN1-UBC12 interaction inhibitor(IC50 of 11 nM).
Targets(IC50)	E1/E2/E3 Enzyme
In vitro	WS-383 (10 μM) is selective to the DCN1-UBC12 interaction over the selected kinasesr. WS-383 (0.03-3 μM;24 hours) blocks Cul3 neddylation at 3 μM and also has certain inhibition of Cul1 neddylation at 10 μM but was not effective in inhibiting neddylation of other cullin members. WS-383 (0.03-3 μM;24 hours) increases Cul1, Skp1 (adaptor protein), F-box protein, and RBX1/RBX2 RING protein form SCF E3 complex. Cyclin dependent kinase inhibitor 1A (p21) and cyclin dependent kinase inhibitor 1B (p27) expression in a dose-dependent manner in MGC-803 and KYSE70 manner.

Solubility Information

Solubility	DMSO: 11.37 mg/mL (22.81 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 1.14 mg/mL (2.29 mM),Solution. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0062 mL	10.0309 mL	20.0618 mL
5 mM	0.4012 mL	2.0062 mL	4.0124 mL
10 mM	0.2006 mL	1.0031 mL	2.0062 mL
50 mM	0.0401 mL	0.2006 mL	0.4012 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

Wang S, et al. Development of Highly Potent, Selective, and Cellular Active Triazolo[1,5- a]pyrimidine-Based Inhibitors Targeting the DCN1-UBC12 Protein-Protein Interaction. J Med Chem. 2019 Mar 14;62(5):2772-2797.