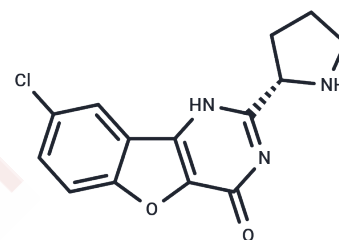


XL413

## Chemical Properties

CAS No. : 1169558-38-6  
 Formula: C<sub>14</sub>H<sub>12</sub>ClN<sub>3</sub>O<sub>2</sub>  
 Molecular Weight: 289.72  
 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	XL-413 is an orally bioavailable cell division cycle 7 homolog (CDC7) kinase inhibitor with potential antineoplastic activity. XL-413 binds to and inhibits the activity of CDC7, which may result in the inhibition of DNA replication and mitosis, the induction of tumor cell apoptosis, and the inhibition of tumor cell proliferation in CDC7-overexpressing tumor cells.
Targets(IC50)	Casein Kinase,CDK,Cholecystokinin Receptor,Pim

## Solubility Information

Solubility	DMSO: 2.9 mg/mL (10.01 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	--

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4516 mL	17.258 mL	34.5161 mL
5 mM	0.6903 mL	3.4516 mL	6.9032 mL
10 mM	0.3452 mL	1.7258 mL	3.4516 mL
50 mM	0.069 mL	0.3452 mL	0.6903 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

Koltun ES, et al. Bioorg Med Chem Lett. 2012 Jun 1;22(11):3727-31.

Yu Z, Deng P, Chen Y, et al. Inhibition of the PLK1-Coupled Cell Cycle Machinery Overcomes Resistance to Oxaliplatin in Colorectal Cancer. Advanced Science. 2021: 2100759.

Liu S, Deng P, Yu Z, et al. CDC7 Inhibition Potentiates Antitumor Efficacy of PARP Inhibitor in Advanced Ovarian Cancer. Advanced Science. 2024: 2403782.

**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