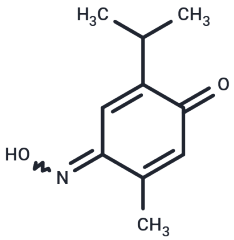
Data Sheet (Cat.No.T16559)

TargetMol

Poloxime

Chemical Properties



CAS No. : 17302-61-3

Formula: C10H13NO2

Molecular Weight: 179.22

Appearance: no data available

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

Biological Description

Description	Poloxime is a hydrolysis product of poloxin and is a non-ATP-competitive Plk1 inhibitor. It also has moderate Plk1 inhibitory activity.
Targets(IC50)	PLK
In vitro	Poloxime (100 μM) suppresses phosphopeptide binding to the polo-box domain (PBD) of polo-like kinase 1 [2].

Solubility Information

Solubility	DMSO: 100 mg/mL (557.97 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.5797 mL	27.8987 mL	55.7973 mL
5 mM	1.1159 mL	5.5797 mL	11.1595 mL
10 mM	0.558 mL	2.7899 mL	5.5797 mL
50 mM	0.1116 mL	0.558 mL	1.1159 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.

Reference

Liu M, et al. Identification of indole-3-carboxylic acids as non-ATP-competitive Polo-like kinase 1 (Plk1) inhibitors. Bioorg Med Chem Lett. 2015 Feb 1;25(3):431-4.

Yin Z, et al. Thymoquinone blocks pSer/pThr recognition by Plk1 Polo-box domain as a phosphate mimic. ACS Chem Biol. 2013 Feb 15;8(2):303-8.

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