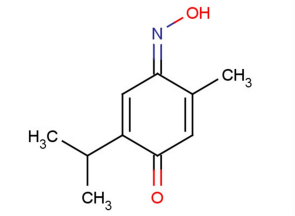
Data Sheet (Cat.No.T16559)

TargetMol
A DRUG SCREENING EXPERT

Poloxime

Chemical Properties



CAS No.:	17302-61-3
Formula:	C10H13NO2
Molecular Weight:	179.22
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

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(IC_{50})	PLK1: None
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) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	5.58 mL	27.899 mL	55.797 mL
5 mM	1.116 mL	5.58 mL	11.159 mL
10 mM	0.558 mL	2.79 mL	5.58 mL
50 mM	0.112 mL	0.558 mL	1.116 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. 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.

2. 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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