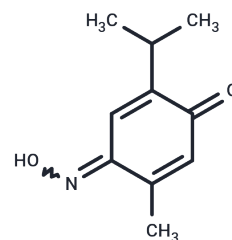


Poloxime

Chemical Properties

CAS No. :	17302-61-3
Formula:	C ₁₀ H ₁₃ NO ₂
Molecular Weight:	179.22
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	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)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (18.41 mM),Sonication is recommended. <i>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.</i>

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.

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

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