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**Product Data Sheet**

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Product Name: Poloxime  
Cat. No.: GC14735

**Chemical Properties**

Cas. No. 17302-61-3

Chemical Name (Z)-4-(hydroxyimino)-2-isopropyl-5-methylcyclohexa-2,5-dienone

SMILES CC(C1=C/C(C(C)=CC1=O)=N/O)C

Formula  $C_{10}H_{13}NO_2$  M.Wt 179.22

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

**Background**

Poloxime, a hydrolysis product of poloxin, is a non-ATP-competitive Plk1 inhibitor, with moderate Plk1 inhibitory activity.

Poloxime (100 μM) inhibits phosphopeptide binding to polo-box domain (PBD) of polo-like kinase 1 (Plk1)[2].

**References:**

- [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.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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