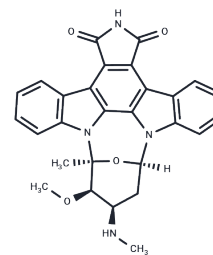


7-oxo Staurosporine

Chemical Properties

CAS No. :	125035-83-8
Formula:	C ₂₈ H ₂₄ N ₄ O ₄
Molecular Weight:	480.51
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	7-oxo Staurosporine is an antibiotic originally isolated from <i>S. platensis</i> with diverse biological activities. It inhibits PKC, PKA, phosphorylase kinase, EGFR, and c-Src in vitro (IC ₅₀ s = 9, 26, 5, 200, and 800 nM, respectively). 7-oxo Staurosporine induces cell cycle arrest in the G ₂ /M phase in human leukemia K562 cells with a minimal effective dose (MED) of 30 ng/ml. It is cytotoxic to P388 mouse leukemia cells that are resistant and susceptible to doxorubicin. 7-oxo Staurosporine inhibits growth of the mycelial, but not yeast form of <i>C. albicans</i> , <i>C. krusei</i> , <i>C. tropicalis</i> , and <i>C. lusitanae</i> (MICs = 3.1-25 µg/ml). It increases sphingomyelin synthesis in CHO-K1 cells when used at a concentration of 50 nM.
Targets(IC ₅₀)	Others,PKC

Solubility Information

Solubility	Ethanol: Soluble Methanol: Soluble DMSO: Soluble DMF: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0811 mL	10.4056 mL	20.8112 mL
5 mM	0.4162 mL	2.0811 mL	4.1622 mL
10 mM	0.2081 mL	1.0406 mL	2.0811 mL
50 mM	0.0416 mL	0.2081 mL	0.4162 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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