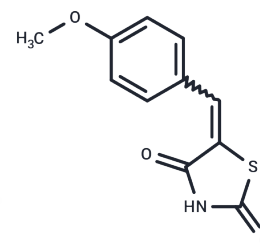


Pim-1/2 kinase inhibitor 1

Chemical Properties

CAS No. :	6320-51-0
Formula:	C ₁₁ H ₉ NO ₃ S
Molecular Weight:	235.26
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	Pim-1/2 Kinase Inhibitor 1, an orally active inhibitor, impedes the action of Pim kinases by preventing their ability to phosphorylate peptides. It particularly inhibits the phosphorylation of 4E-BP1 and p27 Kip1 by Pim protein kinases. This compound is valuable in cancer research, with a notable application in studying prostate cancer [1].
Targets(IC50)	Pim
In vitro	Pim-1/2 kinase inhibitor 1 (compound D14) exhibits cytotoxicity to PC3 cells, with an IC of 11 µM after 48 hours of incubation at varying concentrations [1].

Solubility Information

Solubility	DMSO: 50 mg/mL (212.53 mM), Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2.5 mg/mL (10.63 mM), Sonication is recommended. 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.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.2506 mL	21.2531 mL	42.5062 mL
5 mM	0.8501 mL	4.2506 mL	8.5012 mL
10 mM	0.4251 mL	2.1253 mL	4.2506 mL
50 mM	0.085 mL	0.4251 mL	0.8501 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

Charles D. Smith, et al. Inhibitors of PIM-1 Protein Kinases, Compositions and Methods for Treating Prostate Cancer. Patent US20110263664A1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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