Pim-1/2 kinase inhibitor 1

Cat. No.: HY-W412264

CAS No.: 6320-51-0

Molecular Formula: $C_{11}H_9NO_3S$

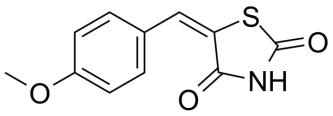
Molecular Weight: 235.26

Target: Pim

Pathway: JAK/STAT Signaling

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (1062.65 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (8.84 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Pim-1/2 kinase inhibitor 1 is an orally active pim-1/2 kinase inhibitor. Pim-1/2 kinase inhibitor 1 blocks the ability of Pim kinases to phosphorylate peptides, and inhibits the pim protein kinase directed phosphorylation of 4E-BP1 and $p27^{Kip1}$. Pim-1/2 kinase inhibitor 1 can be used in study of cancer, especially prostate cancer[1].

In Vitro

Pim-1/2 kinase inhibitor 1 (compound D14) (varying concentrations; 48 h) shows cytotoxicity to PC3 cells, with an IC of 11 μM [1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Cytotoxicity Assay[1]

Cell Line:	PC3 cells
Concentration:	varying concentrations

Incubation Time:	48 h
Result:	Inhibited PC3 cells with an IC of 11 μM.

REFERENCES

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

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