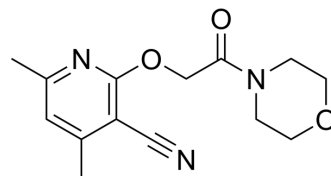


Pim-1 kinase inhibitor 8

Cat. No.:	HY-162006		
CAS No.:	916038-47-6		
Molecular Formula:	C ₁₄ H ₁₇ N ₃ O ₃		
Molecular Weight:	275.3		
Target:	PKC; Pim		
Pathway:	Epigenetics; TGF-beta/Smad; 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 : 125 mg/mL (454.05 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	3.6324 mL	18.1620 mL	36.3240 mL
5 mM	0.7265 mL	3.6324 mL	7.2648 mL
10 mM	0.3632 mL	1.8162 mL	3.6324 mL

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

BIOLOGICAL ACTIVITY

Description

Pim-1 kinase inhibitor 8 (compound 12) is a potent inhibitor of Pim-1 kinase with an IC₅₀ of 14.3 nM. Pim-1 kinase inhibitor 8 has potent cytotoxicity against MCF-7 and HepG2 cells with IC₅₀s of 0.5 and 5.27 μM, respectively. Pim-1 kinase inhibitor 8 can be used in study breast cancer^[1].

REFERENCES

[1]. Shaban SM, et al. Design and Synthesis of Novel Pyridine-Based Compounds as Potential PIM-1 Kinase Inhibitors, Apoptosis, and Autophagy Inducers Targeting MCF-7 Cell Lines: In Vitro and In Vivo Studies. ACS Omega. 2023 Nov 27;8(49):46922-46933.

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

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