

PIM1-IN-1

Chemical Properties

CAS No. : 1417630-95-5

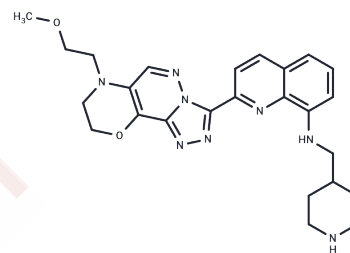
Formula: C₂₅H₃₀N₈O₂

Molecular Weight: 474.56

Store at low temperature

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	PIM1-IN-1 is a potent and highly selective PIM kinase inhibitor with strong preference for PIM1 and PIM3 over PIM2, effectively inhibiting BAD phosphorylation without detectable effects on FLT3 or hERG binding, and exhibiting antiproliferative and anticancer activity suitable for mechanistic studies of PIM-driven oncogenic signaling.
Targets(IC50)	Pim
In vitro	In the SKMEL-19 melanoma cell line, PIM1-IN-1 inhibited cell growth with a GI50 value of 1.48 μ M. When cells were treated at concentrations of 2.5, 5, and 10 μ M for 24 hours, the compound dose-dependently induced apoptosis[1].
In vivo	PIM1-IN-1 demonstrates acceptable clearance of 1.26 L/h/kg in BALB-C mice[1].

Solubility Information

Solubility	DMSO: 36 mg/mL (75.86 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1072 mL	10.5361 mL	21.0722 mL
5 mM	0.4214 mL	2.1072 mL	4.2144 mL
10 mM	0.2107 mL	1.0536 mL	2.1072 mL
50 mM	0.0421 mL	0.2107 mL	0.4214 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

Martínez-González S, et al. Discovery of novel triazolo[4,3-b]pyridazin-3-yl-quinoline derivatives as PIM inhibitors. Eur J Med Chem. 2019 Feb 19;168:87-109.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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