

IWP 12

Chemical Properties

CAS No. : 688353-45-9

Formula: C₁₈H₁₈N₄O₂S₃

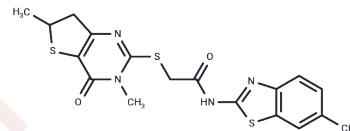
Molecular Weight: 418.56

Keep away from direct sunlight, Keep away from moisture

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	IWP 12 is a highly efficient Porcupine (Porcn) inhibitor that inhibits the Wnt signaling pathway, blocking tail fin regeneration in both adult and juvenile fish.
Targets(IC50)	Porcupine, Acyltransferase, Wnt/beta-catenin
In vitro	IWP 12 is a potent porcupine (PORCN) inhibitor that blocks cell-autonomous Wnt signaling with an IC ₅₀ of 15 nM.[1]

Solubility Information

Solubility	DMSO: 20 mg/mL (47.78 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	2.3891 mL	11.9457 mL	23.8914 mL
5 mM	0.4778 mL	2.3891 mL	4.7783 mL
10 mM	0.2389 mL	1.1946 mL	2.3891 mL
50 mM	0.0478 mL	0.2389 mL	0.4778 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

Wang X, et al. The development of highly potent inhibitors for porcupine. J Med Chem. 2013 Mar 28;56(6):2700-4.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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