

HPI-1 (hydrate)

Chemical Properties

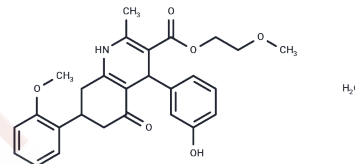
CAS No. : 1262770-72-8

Formula: C₂₇H₃₁N₇O₇

Molecular Weight: 481.54

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	HPI-1 (hydrate) is a Hedgehog (Hh) pathway inhibitor that suppresses signaling through Sonic Hh (IC ₅₀ = 1.5 μM) without significantly affecting Wnt signaling (IC ₅₀ ≥ 30 μM). HPI-1 suppresses Hh activation induced by loss of Suppressor of Fused or by Gli overexpression, suggesting action at posttranslational modification of Gli protein or at the interaction of Gli with a co-factor. HPI-1 (hydrate) also inhibits signaling through the oncogenic Smoothed (Smo) mutant SmoM2 in neuron precursors, preventing cell proliferation.
Targets(IC ₅₀)	Others

Solubility Information

Solubility	DMSO: 3 mg/mL (6.23 mM), Sonication is recommended. DMF: 10 mg/mL (20.77 mM), Sonication is recommended. Ethanol: 20 mg/mL (41.53 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	2.0767 mL	10.3834 mL	20.7667 mL
5 mM	0.4153 mL	2.0767 mL	4.1533 mL
10 mM	0.2077 mL	1.0383 mL	2.0767 mL
50 mM	0.0415 mL	0.2077 mL	0.4153 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

Hyman, J.M., Firestone, A.J., Heine, V.M., et al. Small-molecule inhibitors reveal multiple strategies for Hedgehog pathway blockade. *Proceedings of the National Academy of Sciences of the United States of America* 106(33):14132-14137 (2009)

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