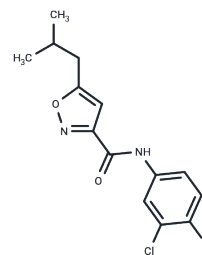


SJ000063181

Chemical Properties

CAS No. : 945189-68-4
 Formula: C₁₄H₁₄ClFN₂O₂
 Molecular Weight: 296.72
 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	SJ000063181 is a potent activator of BMP signaling, exhibiting an EC ₅₀ of ≤1 μM. It serves as a valuable chemical probe for BMP signaling analysis, owing to its ability to penetrate zebrafish embryos.
Targets(IC ₅₀)	TGF-beta/Smad

Solubility Information

Solubility	DMSO: 90 mg/mL (303.32 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 3.3 mg/mL (11.12 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3702 mL	16.8509 mL	33.7018 mL
5 mM	0.674 mL	3.3702 mL	6.7404 mL
10 mM	0.337 mL	1.6851 mL	3.3702 mL
50 mM	0.0674 mL	0.337 mL	0.674 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

Shu DY, et al. Contrasting roles for BMP-4 and ventromorphins (BMP agonists) in TGF β -induced lens EMT. Exp Eye Res. 2021;206:108546.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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