

ISX-3

## Chemical Properties

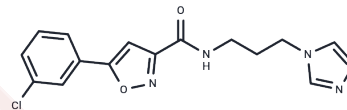
CAS No. : 912789-08-3

Formula: C<sub>16</sub>H<sub>15</sub>ClN<sub>4</sub>O<sub>2</sub>

Molecular Weight: 330.77

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	ISX-3 is a potent pro-osteogenic and anti-adipogenic agent. ISX-3 can increase the expression of PPAR $\gamma$ . ISX-3 can be for the research of osteopenia and osteoporosis.
Targets(IC50)	Others,PPAR
In vitro	ISX-3 (0-100000 nM; 10 days) showed a stimulating effect on lipid droplet accumulation and an inhibitory effect on ALP induction. ISX-3 (50 $\mu$ M; 2 days) increases the expression of PPAR $\gamma$ in hBMSCs in the presence of MDI[1].

## Solubility Information

Solubility	DMSO: 11 mg/mL (33.26 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (6.05 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

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	3.0232 mL	15.1162 mL	30.2325 mL
5 mM	0.6046 mL	3.0232 mL	6.0465 mL
10 mM	0.3023 mL	1.5116 mL	3.0232 mL
50 mM	0.0605 mL	0.3023 mL	0.6046 mL

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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

Nawa K, et al. Discovering small molecules that inhibit adipogenesis and promote osteoblastogenesis: unique screening and Oncostatin M-like activity. Differentiation. 2013 Jul-Sep;86(1-2):65-74.

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