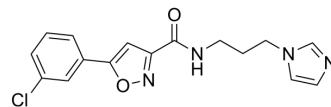


ISX-3

Cat. No.:	HY-148694
CAS No.:	912789-08-3
Molecular Formula:	C ₁₆ H ₁₅ ClN ₄ O ₂
Molecular Weight:	330.77
Target:	Others
Pathway:	Others
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (302.32 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				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
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (7.56 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (7.56 mM); Suspended solution; Need ultrasonic						
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.56 mM); Clear solution						

BIOLOGICAL ACTIVITY

Description	ISX-3 is a potent anti-adipogenic and pro-osteogenic agent. ISX-3 increases the expression of PPARγ. ISX-3 has the potential for the research of osteopenia and osteoporosis ^[1] .
In Vitro	ISX-3 (0-100,000 nM; 10 days) shows a stimulatory effect on the accumulation of lipid droplets and an inhibitory effect on ALP (alkaline phosphatase) induction ^[1] . ISX-3 (50 μM; 2 days) increases the expression of PPARγ in the presence of MDI in hBMSCs ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis ^[1]

Cell Line:	hBMSCs
Concentration:	50 μ M
Incubation Time:	2 days
Result:	Increased the PPAR γ expression level in the presence of MDI (0.5 mM isobutyl methylxanthine, 1 μ M dexamethasone and 1 μ M insulin).

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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