



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

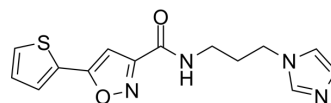
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

ISX-1

Cat. No.:	HY-113790
CAS No.:	909207-35-8
Molecular Formula:	C ₁₄ H ₁₄ N ₄ O ₂ S
Molecular Weight:	302.35
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 : 50 mg/mL (165.37 mM; Need ultrasonic)

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	3.3074 mL	16.5371 mL	33.0742 mL	
5 mM	0.6615 mL	3.3074 mL	6.6149 mL	
10 mM	0.3307 mL	1.6537 mL	3.3074 mL	

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

ISX-1 is an isoxazole. ISX-1 has anti-adipogenic and pro-osteogenic activities. ISX-1 can be used for the research of osteopenia and osteoporosis^[1].

IC₅₀ & Target

IC₅₀: 1.9 μM (lipid droplet formation); EC₅₀: 1.2 μM (induce ALP)^[1]

In Vitro

ISX-1 dose-dependently inhibits the accumulation of intracellular lipid droplets and stimulated ALP activity^[1]. ISX-1 can form lipid droplet with an IC₅₀ value of 1.9 μM and also can induce ALP with an EC₅₀ value of 1.2 μM^[1]. ISX-1 (0, 1.3, 6.5 and 33 μM; 3 days) inhibited the mRNA induction of PPARγ and FABP4 genes under the adipogenic differentiation of hBMSCs^[1]. ISX-1 (0, 1.3, 6.5 and 33 μM) promotes TCF/LEF-mediated gene transcription^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. RT-PCR^[1]

Cell Line:	Human bone marrow mesenchymal stem cells (hBMSCs)
Concentration:	0, 1.3, 6.5 and 33 μM

Incubation Time:	3 days
Result:	Inhibited the mRNA induction of PPAR γ and FABP4 genes under the adipogenic differentiation of hBMSCs and showed no effect on C/EBP α expression.
Western Blot Analysis ^[1]	
Cell Line:	HEK 293 cells
Concentration:	6.5 and 33 μ M
Incubation Time:	6.5 and 33 μ M
Result:	Increased both the amount of activated and total β -catenin.

REFERENCES

[1]. Nawa, Katsuhiko 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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA