SZABO SCANDIC

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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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OB-1

Cat. No.: HY-122671

CAS No.: 300803-69-4

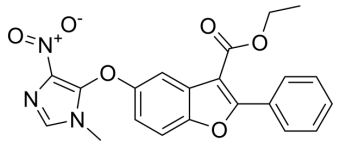
Molecular Formula: $C_{21}H_{17}N_3O_6$

Molecular Weight: 407.38

Target: Others

Pathway: Others

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 12.73 mg/mL (31.25 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.4547 mL	12.2736 mL	24.5471 mL
	5 mM	0.4909 mL	2.4547 mL	4.9094 mL
	10 mM	0.2455 mL	1.2274 mL	2.4547 mL

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

BIOLOGICAL ACTIVITY

Description

OB-1 is a stomatin-like protein-3 (STOML3) oligomerization blocker. OB-1 is an effective inhibitor of the self-association of Stomatin, STOML1 and STOML2, but not podocin[1].

IC_{50} & Target

Stomatin, STOML1, STOML2, STOML3[1]

In Vitro

OB-1 (3 h) reduces mechanotransduction currents in in N2a cells with an IC_{50} of 10 nM[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

OB-1 (250-500 pmol per paw; s.c.; once) reversibly reduces the sensitivity of mechanically gated currents in sensory neurons and silence mechanoreceptors in mice[1].

OB-1 (250 pmol per paw; s.c.; once) alleviates painful diabetic neuropathy in mice[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	C57Bl/6N mice[1]
Dosage:	250-500 pmol per paw

Administration:	Subcutaneous injection, once
Result:	Over 40% of Aβ fibers (19/44) lacked a mechanosensitive receptive field, which was significantly different from that in vehicle-injected controls, where less than 7% (5/69 fibers) were found to be insensitive to mechanical stimuli. Reduced touch perception. Reversed tactile allodynia.

Animal Model:	Eight-week-old C57Bl/6 mice, Streptozotocin (HY-13753) model[1]
Dosage:	250 pmol per paw
Administration:	Subcutaneous injection, once
Result:	Substantially reversed the mechanical hypersensitivity 4 h after treatment.

REFERENCES

[1]. Wetzel C, et al. Small-molecule inhibition of STOML3 oligomerization reverses pathological mechanical hypersensitivity. Nat Neurosci. 2017 Feb;20(2):209-218.

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