## **OB-1**

Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway:	HY-122671 300803-69-4 C <sub>21</sub> H <sub>17</sub> N <sub>3</sub> O <sub>6</sub> 407.38 Others Others	$O = N^+ O^- O^- O^- O^- O^- O^- O^- O^- O^- O^-$
Target: Pathway:	Others Others	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

### SOLVENT & SOLUBILITY

In Vitro

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

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

DIOLOGICAL ACTIV		
Description	OB-1 is a stomatin-like prote Stomatin, STOML1 and STOI	ein-3 (STOML3) oligomerization blocker. OB-1 is an effective inhibitor of the self-association of ML2, but not podocin <sup>[1]</sup> .
IC <sub>50</sub> & Target	Stomatin, STOML1, STOML2	, STOML3 <sup>[1]</sup>
In Vitro	OB-1 (3 h) reduces mechano MCE has not independently	transduction currents in in N2a cells with an IC <sub>50</sub> of 10 nM <sup>[1]</sup> . confirmed the accuracy of these methods. They are for reference only.
In Vivo	OB-1 (250-500 pmol per paw and silence mechanorecepte OB-1 (250 pmol per paw; s.c. MCE has not independently Animal Model: Dosage:	r; s.c.; once) reversibly reduces the sensitivity of mechanically gated currents in sensory neurons ors in mice <sup>[1]</sup> . .; once) alleviates painful diabetic neuropathy in mice <sup>[1]</sup> . confirmed the accuracy of these methods. They are for reference only. C57Bl/6N mice <sup>[1]</sup> 250-500 pmol per paw
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# Product Data Sheet

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 <sup>[1]</sup>	
Dosage:	250 pmol per paw	
Dosage: Administration:	250 pmol per paw Subcutaneous injection, once	

#### REFERENCES

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

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

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