

Mambalgin 1

Chemical Properties

CAS No. :	1609937-15-6
Formula:	C272H429N85O84S10
Molecular Weight:	6554.51
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>

LKCYQHSGKVVVTCRDMKFCYHNTGMPFRN
LKLILGSSSSSGSETENKNGCSTDRCKK
(Disulfide bridge: Cys₃-Cys₁₁₉, Cys₁₂-Cys₃₁, Cys₄₁-Cys₄₉, Cys₅₀-Cys₅₅)

Biological Description

Description	Selective ASIC1a inhibitor (IC50 values are 192 and 72 nM for human ASIC1a and ASIC1a/1b dimer, respectively). Binds to closed/inactive channel. Selective for ASIC1a over ASIC2a, ASIC3, TRPV1, P2X2, 5-HT3, Nav1.8, Cav3.2 and Kv1.2 channels. Increases latency of withdrawal response in mouse tail-flick and paw-flick tests. Analgesic.
Targets(IC50)	Sodium Channel

Solubility Information

Solubility	H2O: 1 mg/mL (0.15 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.1526 mL	0.7628 mL	1.5257 mL
5 mM	0.0305 mL	0.1526 mL	0.3051 mL
10 mM	0.0153 mL	0.0763 mL	0.1526 mL
50 mM	0.0031 mL	0.0153 mL	0.0305 mL

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

Diochot et al (2012) Black mamba venom peptides target acid-sensing ion channels to abolish pain. Nature 490 552 PMID:

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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