Overview

**Product name**
GsMTx-4, mechanosensitive and stretch-activated ion channel inhibitor

**Description**
Mechanosensitive and stretch-activated ion channel inhibitor

**Biological description**
Mechanosensitive and stretch-activated ion channel inhibitor. Acts as a gating modifier for TRPC1 and TRPC6 channels. Interacts with lipid membranes. Shows analgesic effects *in vivo*.

**CAS Number**
1209500-46-8

**Chemical structure**
GcLeFWWkCNPNDDKKCPKLCSKLFKNFSF (Modifications: Phe-34 = C-terminal amide, Disulfide bridges: 2-17, 9-23 and 16-30)

**Molecular weight**
4095.85

**Molecular formula**
C_{186}H_{273}N_{49}O_{45}S_{6}

**Storage instructions**
Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.

**Solubility overview**
Soluble in water to 1mg/ml

**Handling**
Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.

**Source**
Grammostola rosea
GsMTx-4 (ab141870) inhibits Nav1.7 channel currents expressed in *Xenopus* oocytes. Nav1.7 currents were elicited by 100 ms voltage ramp from a holding potential of -100 mV to +30 mV, applied every 10 seconds using whole-cell voltage clamp technique. Left: Superimposed traces of Nav1.7 currents before (black) and during (green) application of 500 nM GsMTx-4 (ab141870). Right: GsMTx-4 dose response inhibition of Nav1.7 currents.

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