

Product datasheet

GsMTx-4, mechanosensitive and stretch-activated ion channel inhibitor ab141871

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Overview

Product name	GsMTx-4, mechanosensitive and stretch-activated ion channel inhibitor
Description	Mechanosensitive and stretch-activated ion channel inhibitor
CAS Number	1209500-46-8
Chemical structure	<p>Gly-Cys-Leu-Glu-Phe-Trp-Trp-Lys-Cys-Asn-Pro-Asn-Asp-Asp-Lys-Cys-Cys-Arg-Pro-Lys-Leu-Lys-Cys-Ser-Lys-Leu-Phe-Lys-Leu-Cys-Asn-Phe-Ser-Phe-NH₂</p> <p>(Disulfide bridges: 2-17, 9-23 and 16-30)</p>

Properties

Molecular weight	4095.85
Molecular formula	C ₁₈₅ H ₂₇₃ N ₄₉ O ₄₅ S ₆
Sequence	GCLEFWWKCNPNDDKCCRPKLKCSKLFKLCNFSF (Modifications: Phe-34 = C-terminal amide, Disulfide bridges: 2-17, 9-23 and 16-30)
PubChem identifier	90488987
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	<p>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.</p> <p>Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.</p>
Source	<i>Grammostola rosea</i>

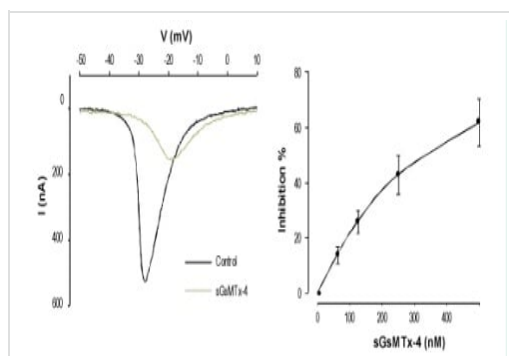
Images

Gly-Cys-Leu-Glu-Phe-Trp-Trp-Lys-Cys-Asn-Pro-Asn-Asp-
Asp-Lys-Cys-Cys-Arg-Pro-Lys-Leu-Lys-Cys-Ser-Lys-Leu-
Phe-Lys-Leu-Cys-Asn-Phe-Ser-Phe-NH₂

(Disulfide bridges: 2-17, 9-23 and 16-30)

Chemical Structure - GsMTx-4, mechanosensitive
and stretch-activated ion channel inhibitor
(ab141871)

2D chemical structure image of ab141871, GsMTx-4,
mechanosensitive and stretch-activated ion channel inhibitor



Functional Studies - GsMTx-4, mechanosensitive
and stretch-activated ion channel inhibitor
(ab141871)

GsMTx-4 (**ab141870**) inhibits Na_v1.7 channel currents expressed in *Xenopus* oocytes. Na_v1.7 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 Na_v1.7 currents before (black) and during (green) application of 500 nM GsMTx-4 (**ab141870**). Right: GsMTx-4 dose response inhibition of Na_v1.7 currents.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS"

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