

Product datasheet

ProTx-I, Ca_v3.1 channel blocker. Inhibits Na_v1 and K_v2.1 channels. ab141863

1 Image

Overview

Product name	ProTx-I, Ca _v 3.1 channel blocker. Inhibits Na _v 1 and K _v 2.1 channels.
Description	Potent, selective Ca _v 3.1 channel blocker. Inhibits Na _v 1 and K _v 2.1 channels.
Biological description	Potent, selective Ca _v 3.1 channel blocker (IC ₅₀ values are 0.2 and 32 μM for Ca _v 3.1 and Ca _v 3.2 respectively). Reversibly inhibits all Na _v 1 subtypes by modifying gating kinetics similar to ProTx-II (Asc 1880). Blocks K _v 2.1 channels. Shows proliferative effects.
Purity	> 98%
Chemical structure	<p>Glu-Cys-Arg-Tyr-Trp-Leu-Gly-Gly-Cys-Ser-Ala-Gly-Gln-Thr-Cys-Cys-Lys-His-Leu-Val-Cys-Ser-Arg-Arg-His-Gly-Trp-Cys-Val-Trp-Asp-Gly-Thr-Phe-Ser</p> <p>(Disulfide bridges: 2-16, 9-21 and 15-28)</p>

Properties

Molecular weight	3987.50
Molecular formula	C ₁₇₁ H ₂₄₅ N ₅₃ O ₄₇ S ₆
Sequence	ECRYWLGGCSAGQTCKKHLVCSRRHGWCVWDGTF (Modifications: Disulfide bonds: 2-16, 9-21, 15-28)
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
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 week. 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>Thrixopelma pruriens</i>

Images

Glu-Cys-Arg-Tyr-Trp-Leu-Gly-Gly-Cys-Ser-Ala-Gly-Gln-Thr-Cys-Cys-Lys-His-Leu-Val-Cys-Ser-Arg-Arg-His-Gly-Trp-Cys-Val-Trp-Asp-Gly-Thr-Phe-Ser

(Disulfide bridges: 2-16, 9-21 and 15-28)

Chemical Structure - ProTx-I, Ca_v3.1 channel

blocker. Inhibits Na_v1 and K_v2.1 channels.

(ab141863)

2D chemical structure image of ab141863, ProTx-I, Ca_v3.1 channel blocker. Inhibits Na_v1 and K_v2.1 channels.

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