

APETx2, ASIC3 channel blocker ab141849

2 Images

Overview

Product name	APETx2, ASIC3 channel blocker
Description	Selective, reversible ASIC3 channel blocker
Biological description	Selective, reversible ASIC3 channel blocker (IC ₅₀ = 63 nM). Inhibits heteromeric ASIC2b and ASIC3 currents (IC ₅₀ = 117 nM) and Na _v 1.8 channels (IC ₅₀ = 2.6 μM). Shows analgesic effects <i>in vivo</i> .
Purity	> 98%
CAS Number	713544-47-9
Chemical structure	Gly-Thr-Ala-Cys-Ser-Cys-Gly-Asn-Ser-Lys-Gly-Ile-Tyr-Trp-Phe-Tyr-Arg-Pro-Ser-Cys-Pro-Thr-Asp-Arg-Gly-Tyr-Thr-Gly-Ser-Cys-Arg-Tyr-Phe-Leu-Gly-Thr-Cys-Cys-Thr-Pro-Ala-Asp (Disulfide bridges: 4-37, 6-30 and 20-38)

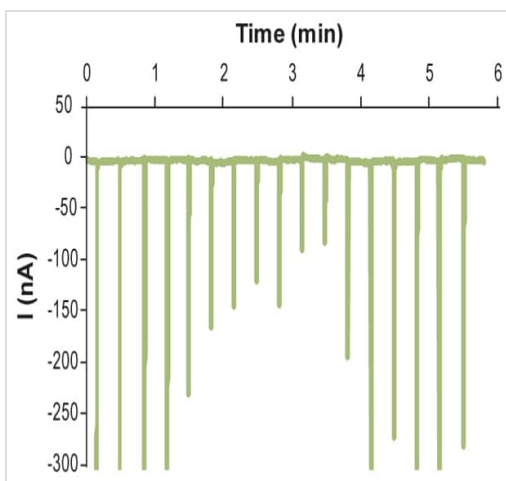
Properties

Molecular weight	4561.05
Molecular formula	C ₁₉₆ H ₂₈₀ N ₅₄ O ₆₁ S ₆
Sequence	GTACSCGNSKGMWYRPSCTDRGYTGSCRYFLGTCCTPAD (Modifications: Disulfide bonds: 4-37, 6-30, 20-38)
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 1 mg/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 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>Anthopleura elegantissima</i>

Gly-Thr-Ala-Cys-Ser-Cys-Gly-Asn-Ser-Lys-Gly-Ile-Tyr-Trp-
Phe-Tyr-Arg-Pro-Ser-Cys-Pro-Thr-Asp-Arg-Gly-Tyr-Thr-Gly-
Ser-Cys-Arg-Tyr-Phe-Leu-Gly-Thr-Cys-Cys-Thr-Pro-Ala-Asp
(Disulfide bridges: 4-37, 6-30 and 20-38)

Chemical Structure - APETx2, ASIC3 channel blocker (ab141849)

2D chemical structure image of ab141849, APETx2, ASIC3 channel blocker



Functional Studies - APETx2, ASIC3 channel blocker (ab141849)

APETx2 blocks inward currents of ASIC3 channels expressed in *Xenopus* oocytes.

Membrane potential was held at 5 mV and whole cell current was continuously recorded. ASIC3 currents were elicited by rapid exposure to pH 5 in physiological solution every 20 sec. 1 μ M APETx2 (ab141849) was introduced into the bath via perfusion, resulting in a reversible inhibition of the pH dependent inward transients.

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

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