Product datasheet

ATX-II ab141870

1 Image

Overview

Product name: ATX-II
Description: Potent Na\textsubscript{V} channel activator
Biological description: Potent Na\textsubscript{V} channel activator (IC\textsubscript{50} = 10-100 nM). Selectively enhances sodium currents in A-fibre-related DRG cells. Algesic and pruritic effects in vivo.
Purity: > 98%

Properties

Molecular weight: 494.64

Molecular formula: C\textsubscript{213}H\textsubscript{323}N\textsubscript{63}O\textsubscript{61}S\textsubscript{6}
CAS Number: 60748-45-0
Sequence: GVPCLCDSDGPSVRGNTLSGIWLAGCPSGWHNCKKHGPTIGWCCKQ (Modifications: Disulfide bonds: 4-44, 6-34, 27-45)
PubChem identifier: 56841750
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: 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.

Source: Anemonia sp.
ATX-II (ab141870) enhances hNa\textsubscript{v}1.5 currents in stably transfected HEK cells. hNa\textsubscript{v}1.5 currents were elicited by a 50 ms voltage step from the holding potential of -100 mV to -20 mV, applied every 20 seconds, using whole-cell voltage clamp technique (bath solution contains TEA and pipette solution contains CsF). A. Time course, showing the effect of 0.05 nM, 0.5 nM, 5 nM and 50 nM ATX-II (ab141870) on the current area, indicating a dose-dependent slowing of the hNa\textsubscript{v}1.5 inactivation. B. Superimposed traces of hNa\textsubscript{v}1.5 currents under control conditions and after 4-6 min perfusion with 0.05 nM, 0.5 nM, 5 nM and 50 nM ATX-II, as indicated.

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