

Certificate of Analysis

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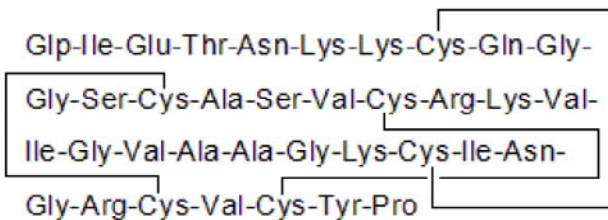
Product Name: AmmTX3

Catalog No.: 5659

Batch No.: 2

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₅₈H₂₆₂N₅₀O₄₈S₆
Batch Molecular Weight: 3822.47
Physical Appearance: White lyophilised solid
Net Peptide Content: 95%
Counter Ion: TFA
Solubility: Soluble to 1 mg/ml in water
Storage: Store at -20°C
Peptide Sequence:



2. ANALYTICAL DATA

HPLC: Shows 95.9% purity

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Product Name: AmmTX3

Catalog No.: 5659

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Description:

K_v4 channel blocker. Blocks A-type K⁺ current (I_{SA}) in mouse cerebellar granule neurons. The accessory dipeptidyl peptidase-like proteins (DPP) 6 and 10 are required for blockade.

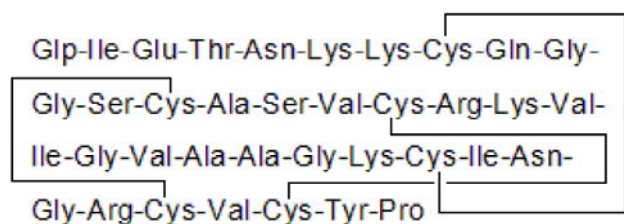
Physical and Chemical Properties:

Batch Molecular Formula: C₁₅₈H₂₆₂N₅₀O₄₈S₆

Batch Molecular Weight: 3822.47

Physical Appearance: White lyophilised solid

Peptide Sequence:



Storage: Store at -20°C

Solubility & Usage Info:

Soluble to 1 mg/ml in water

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Net Peptide Content: 95% (Remaining weight made up of counterions and residual water).

Counter Ion: TFA

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Peptides in solution are much less stable than in lyophilized form. This is especially true for peptides whose sequences contain amino acids such as Cys, Met, Trp, Asn, Gln, and N-terminal Glu.

Therefore we recommend storing peptides in solution for as short a time as possible. Avoid repeated freeze thaw cycles by dividing the peptide solution into aliquots and storing the aliquots at -20°C. Any portion of an aliquot unused after thawing should be discarded.

Peptides stored in solution can occasionally be susceptible to bacterial degradation. We recommend using sterile solutions or passing the peptide solution through a 0.2 µm filter to remove potential bacterial contamination whenever possible.

References:

Maffie et al (2013) Dipeptidyl-peptidase-like-proteins confer high sensitivity to the scorpion toxin AmmTX3 to K_v4-mediated A-type K⁺ channels. *J.Physiol.* **591** 2419. PMID: 23440961.

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