

Certificate of Analysis

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Product Name: Iberiotoxin

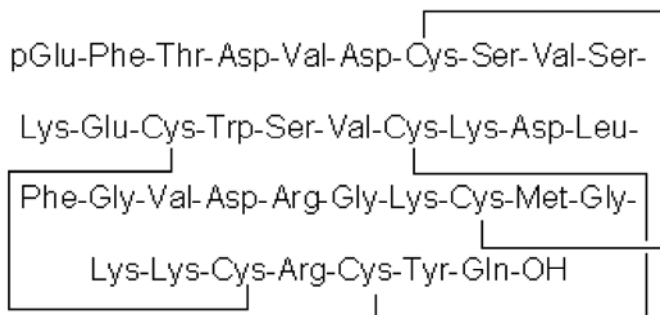
Catalog No.: 1086

Batch No.: 25

CAS Number: 129203-60-7

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇₉H₂₇₄N₅₀O₅₅S₇
Batch Molecular Weight: 4230
Physical Appearance: White lyophilised solid
Net Peptide Content: 95%
Counter Ion: TFA
Solubility: Soluble to 0.70 mg/ml in water
Storage: Desiccate at -20°C
Peptide Sequence:



2. ANALYTICAL DATA

HPLC: Shows 98.21% purity

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

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Batch No.: 25

CAS Number: 129203-60-7

Description:

Selective blocker of the big conductance Ca²⁺-activated K⁺ channel.

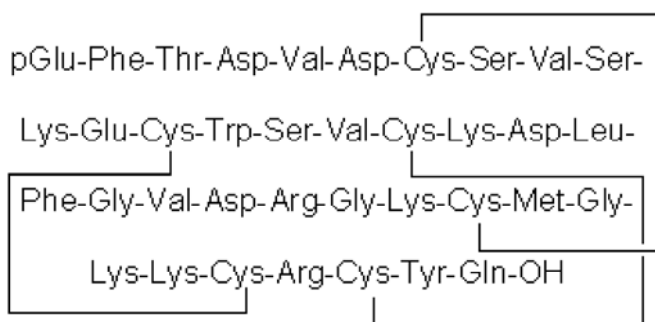
Physical and Chemical Properties:

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Batch Molecular Weight: 4230

Physical Appearance: White lyophilised solid

Peptide Sequence:



Storage: Desiccate at -20°C

Solubility & Usage Info:

Soluble to 0.70 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:

Suarez-Kurtz et al (1991) Effects of charybdotoxin and iberiotoxin on the spontaneous motility and tonus of different guinea-pig smooth muscle tissues. *J.Pharmacol.Exp.Ther.* **259** 439. PMID: 1717682.

Galvez et al (1990) Purification and characterization of a unique, potent, peptidyl probe for the high conductance calcium-activated potassium channel from venom of the scorpion *Buthus tamulus*. *J.Biol.Chem.* **265** 11083. PMID: 1694175.

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