

Product Name: Agitoxin 2

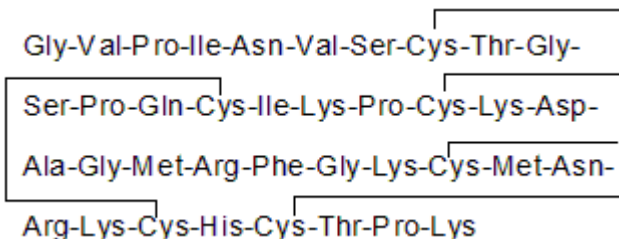
Catalog No.: 5195

Batch No.: 1

CAS Number: 168147-41-9

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆₉H₂₇₈N₅₄O₄₈S₈
Batch Molecular Weight: 4090.87
Physical Appearance: White lyophilised solid
Counter Ion: TFA
Solubility: Soluble to 1 mg/ml in water
Storage: Store at -20°C
Peptide Sequence:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
Mass Spectrum: Consistent with structure

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

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Catalog No.: 5195

Batch No.: 1

CAS Number: 168147-41-9

Description:

Potent Shaker K⁺ channel blocker (K_i = 0.64 nM). Also inhibits K_v1.3, K_v1.6 and K_v1.1 K⁺ channels (K_i values are 4, 37 and 44 pM respectively).

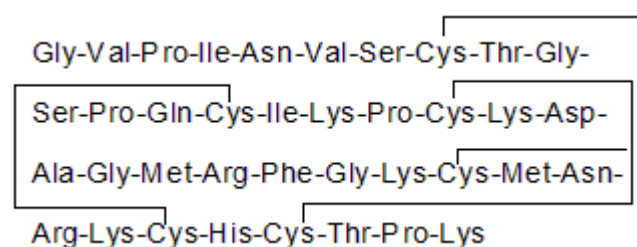
Physical and Chemical Properties:

Batch Molecular Formula: C₁₆₉H₂₇₈N₅₄O₄₈S₈

Batch Molecular Weight: 4090.87

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 lyophilised solid and may be very hard to visualise. 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.

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).

References:

Garcia et al (1994) Purification and characterization of three inhibitors of voltage-dependent K⁺ channels from Leiurus quinquestriatus var. hebraeus venom. *Biochemistry* **33** 6834. PMID: 8204618.

Gross et al (1996) Agitoxin footprinting the shaker potassium channel pore. *Neuron* **16** 399. PMID: 8789954 .

Anangi et al (2012) Recombinant expression of margatoxin and agitoxin-2 in *Pichia pastoris*: an efficient method for production of K_v1.3 channel blockers. *PLoS ONE* **7** e52965. PMID: 23300835.

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