

Certificate Of Analysis

Quality Control Testing and Research Application

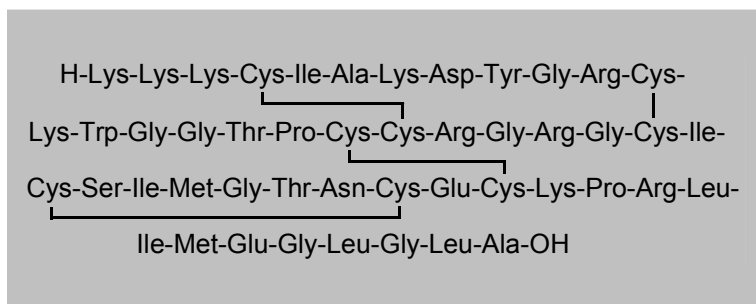
COA Preparation Date: 09/11/2011
 COA Revision Date: 09/11/2014

Product: ω -Agatoxin IVa
Cat. No: BP0022
Batch No: 0022BP/02
Chemical Name: ω -Agatoxin IVA

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₁₇H₃₆₀N₆₈O₆₀S₁₀
Batch Molecular Weight: 5202.25
CAS No:
Physical Appearance: White lyophilised solid
Melting Point:
Solubility: Soluble in water*
Storage: Undissolved peptide desiccate at -20° C
 aliquots at -20°C or below, use within a few weeks

Batch Molecular Structure:



Product Description: **Potent, selective blocker of mammalian P-type voltage-dependent calcium channels (K_D = 2 nM). The Toxin is found in the venom of the funnel web spider (*Agelenopsis aptera*). Displays low-affinity blockade of neuronal N-type Ca²⁺ channels.**

*This vial contains exactly 0.11 mg (21 nmol) of the titled compound which has been lyophilized as an amorphous powder from aqueous solution. Solutions: Do not remove cap. Inject 210 µl of distilled water into the vial using a calibrated syringe. This procedure furnishes a 0.1 mM solution of the titled compound.

References: 1. Turner et al. (1992) Science 258:310; 2. Mintz et al. (1992) Neuron 9:85; 3. Mintz et al. (1992) Nature 355:827; 4. Sidach and Mintz (2000) J Neurosci 20:7174

- CAUTION - Not fully tested. For Research use only. Not for human use. -

