

αA-Conotoxin OIVA

Cat. No. CEI-1181

Lot. No. (See product label)

Introduction

Description αA-Conotoxin OIVA (αA-OIVA) is a peptidyl toxin originally isolated from *Conus obscures* and belongs to the family of short αA-conotoxins (αAS) which includes αA-OIVA, αA-OIVB, αA-PeIVA, and αA-PeIVB. αA-Conotoxin OIVA blocks the fetal muscular subtype nicotinic acetylcholine receptor (α1/β1/γ/δ subunits) (IC₅₀ = 0.51 nM) with 600-fold greater affinity than the adult subtype (IC₅₀ = 310 nM). It completely blocks the elicited currents and it dissociates very slowly from the fetal muscle receptor. This toxin causes an apparently irreversible paralysis upon intramuscular injection into gold fish.

Synonyms Alpha-A-O4a, Alpha-A-OIVA

Product Information

Source Synthetic peptide

Molecular Formula C70H110N24O23S6

Molecular Weight 1848 Da

Purity >99%

Targets α1/β1/γ/δ nAChR

Amino Acid Sequence CCGVXNAACHXCVCKNTC

Storage and Shipping Information

Storage Lyophilized powder can be stored intact at room temperature for several weeks. For longer periods, it should be stored at -20°C.