Creative Enzymes®

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.