

## **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 obscuros* 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) (IC<sub>50</sub> = 0.51 nM) with 600-fold greater affinity than the adult subtype (IC<sub>50</sub> = 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**

CCGVXNAACHXCVCCKNTC

### **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.