

$\omega$ -Agatoxin IVA

## Chemical Properties

CAS No. : 145017-83-0

Formula: C<sub>21</sub>H<sub>36</sub>O<sub>6</sub>N<sub>6</sub>S<sub>10</sub>

Molecular Weight: 5202.25

OMEGA-Agatoxin IVA

Storage: Keep away from moisture  
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Selective blocker of P-type calcium channels (IC <sub>50</sub> < 1 - 3 nM). Also inhibits N-type channels at micromolar concentrations.
Targets(IC <sub>50</sub> )	Calcium Channel

## Solubility Information

Solubility	H <sub>2</sub> O: Soluble, (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.1922 mL	0.9611 mL	1.9222 mL
5 mM	0.0384 mL	0.1922 mL	0.3844 mL
10 mM	0.0192 mL	0.0961 mL	0.1922 mL
50 mM	0.0038 mL	0.0192 mL	0.0384 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Mintz et al (1992) P-type calcium channels blocked by the spider toxin  $\omega$ -Aga-IVA. Nature 355 827 PMID:  
Turner et al (1992) Calcium channels coupled to glutamate release identified by  $\omega$ -Aga-IVA. Science 258 310 PMID:  
Bourinet et al (1999) Splicing of  $\alpha$ 1A subunit gene generates phenotypic variants of P- and Q-type calcium channels. Nat.Neurosci. 2 407 PMID:  
Tringham et al (2008) Protease treatment of cerebellar purkinje cells renders  $\omega$ -agatoxin IVA-sensitive Ca<sup>2+</sup> channels insensitive to inhibition by  $\omega$ -conotoxin GVIA. J.Pharmacol.Exp.Ther. 324 806 PMID:

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