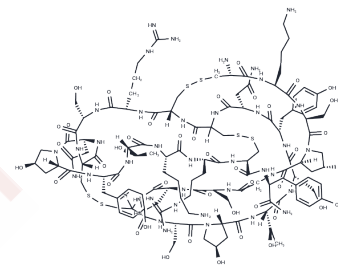


ω -Conotoxin GVIA

Chemical Properties

CAS No. :	106375-28-4
Formula:	C ₁₂₀ H ₁₈₂ N ₃₈ O ₄₃ S ₆
Molecular Weight:	3037
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Peptide neurotoxin; selectively and reversibly blocks N-type calcium channels (IC ₅₀ = 0.15 nM). Reduces (RS)-3,5-DHPG -induced long term depression in vivo.
Targets(IC ₅₀)	Calcium Channel

Solubility Information

Solubility	H ₂ O: 1 mg/mL (0.33 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.3293 mL	1.6464 mL	3.2927 mL
5 mM	0.0659 mL	0.3293 mL	0.6585 mL
10 mM	0.0329 mL	0.1646 mL	0.3293 mL
50 mM	0.0066 mL	0.0329 mL	0.0659 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

- Tsien et al (1988) Multiple types of neuronal calcium channels and their selective modulation. *TiNS* 11 431 PMID:
- Wright and Angu (1997) Prolonged cardiovascular effects of the N-type Ca²⁺ channel antagonist ω -conotoxin GVIA in conscious rabbits. *J.Cardiovasc.Pharmacol.* 30 392 PMID:
- Connelly et al (2011) Distinct mechanisms contribute to agonist and synaptically induced metabotropic glutamate receptor long-term depression. *Eur.J.Pharmacol.* 667 160 PMID:
- Sato et al (1993) Role of basic residues for the binding of omega-conotoxin GVIA to N-type calcium channels. *Biochem.Biophys.Res.Comm.* 194 1292 PMID:

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481