

ω-conotoxin MVIIC

Product name: ω-conotoxin MVIIC	Synonyms : omega CnTx MVIIC
Catalog # : 08CON002	
<p>Product description</p> <p>ω-conotoxin MVIIC (omega conotoxin MVIIC) has been isolated from the venom of the cone Conus magus. ω-conotoxin MVIIC inhibits presynaptic Ca²⁺ channels, including the Ca²⁺ channels responsible for Ca²⁺ uptake by rat brain synaptosomes, the P-type Ca²⁺ channels in cerebellar Purkinje cells, and a significant fraction of ω-conotoxin GVIA-resistant currents in hippocampal CA1 neurons. ω-conotoxin MVIIC also presents an inhibition of ω-conotoxin GVIA-resistant depolarization-induced neurotransmitter release in cerebellar neurons of rats.</p>	
<p>Product specifications</p> <p>AA sequence: Cys¹-Lys-Gly-Lys-Gly-Ala-Pro-Cys⁸-Arg-Lys-Thr-Met-Tyr-Asp-Cys¹⁵-Cys¹⁶-Ser-Gly-Ser-Cys²⁰-Gly-Arg-Arg-Gly-Lys-Cys²⁶-NH₂ Disulfide bonds: Cys¹-Cys¹⁶, Cys⁸-Cys²⁰ and Cys¹⁵-Cys²⁶ Length (aa): 26 Formula: C₁₀₆H₁₇₈N₄₀O₃₂S₇ Molecular Weight: 2750.20 Da Appearance: White lyophilized solid CAS number: [147794-23-8] Source: Synthetic Counterion: TFA salts Solubility: Water or saline buffer, 5 mg/mL maximum (recommendation)</p>	
<p>Formulation</p> <p>Storage/Stability: Shipped at ambient temperature under lyophilized powder. Store at -20°C (-4°F). Do not freeze-thaw. Aliquot sample if required and store at -80°C (-112°F). Expiry date: One year Use restrictions: For laboratory use only. Not for drug, household or other uses. Not for use in diagnostic or therapeutic procedures.</p>	
<p>Related products</p> <ul style="list-style-type: none"> • ω-conotoxin GVIA - #08CON003: Ca_v2.2 inhibitor • ω-conotoxin MVIIA - #08CON001: blocker of N-type voltage-gated calcium channels • ω-conotoxin SO3 - #08CON013: selective N-type voltage-sensitive calcium channels blocker • SNX482 - #08SNX001: selective blocker of R-type voltage-sensitive calcium channels (Ca_v2.3) • ω-agatoxin IVA - #11AGA001: blocker of P/Q-type calcium channel (Ca_v2.1) 	
<p>References</p> <ul style="list-style-type: none"> • Hillyard, D. R., et al. (1992) A new Conus peptide ligand for mammalian presynaptic Ca²⁺ channels, Neuron. • Woppmann A, (1994) Calcium channel subtypes in rat brain: biochemical characterization of the high-affinity receptors for omega-conopeptides SNX-230 (synthetic MVIIC), SNX-183 (SVIB), and SNX-111 (MVIIA), Mol Cell Neurosci. • Grantham CJ, (1994) Omega-conotoxin MVIIC reversibly inhibits a human N-type calcium channel and calcium influx into chick synaptosomes, Neuropharmacology. 	

For laboratory research use only