Product Data Sheet

Product Name: ω-Conotoxin MVIIC (trifluoroacetate salt)
Cat. No.: GC45242

Chemical Properties

Cas. No.			
Formula	$C_{106}H_{178}N_{40}O_{32}S_7 \cdot XCF_3COOH$	M.Wt	2749.3
Solubility	Water: 1 mg/ml	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			

Background

ω-Conotoxin MVIIC is a peptide originally isolated from the marine mollusk C. magus. It blocks N-type calcium channels on rat superior cervical ganglions (SCGs) and P-type calcium channels on rat Purkinje neurons (Kds = 30 and ~50 nM, respectively, in the presence of 5 mM barium). It also blocks Q-type channels in rat CA3 neurons. ω-Conotoxin MVIIC binds to rat brain membranes (IC50 = 0.3 nM) and completely blocks calcium uptake by rat brain synaptosomes when used at a concentration of 2.5 µM in the presence of 5 mM potassium. It blocks potassium-evoked dopamine release from rat striatal slices (IC50 = ~128 nM) and potassium-evoked calcium-dependent glutamate release from rat brain synaptosomes.

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