

Certificate of Analysis

www.tocris.com

Product Name: ω-Conotoxin MVIIC

Catalog No.: 1084

Batch No.: 20

CAS Number: 147794-23-8

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀₆H₁₇₈N₄₀O₃₂S₇
Batch Molecular Weight: 2749
Physical Appearance: White lyophilised solid
Counter Ion: TFA
Solubility: Soluble to 1 mg/ml in water
Storage: Desiccate at -20°C
Peptide Sequence:

```

Cys-Lys-Gly-Lys-Gly-Ala-Pro-Cys-Arg-Lys-
  |               |               |
  |               |               |
Thr-Met-Tyr-Asp-Cys-Cys-Ser-Gly-Ser-Cys-
          |               |
          |               |
        Gly-Arg-Arg-Gly-Lys-Cys-NH2
  
```

2. ANALYTICAL DATA

HPLC: Shows >99% purity
Mass Spectrum: Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Product Information

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Product Name: ω -Conotoxin MVIIC

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Batch No.: 20

CAS Number: 147794-23-8

Description:

ω -Conotoxin MVIIC is a peptide neurotoxin; wide spectrum blocker of N, P and Q type calcium channels.

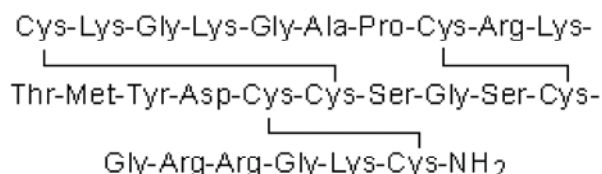
Physical and Chemical Properties:

Batch Molecular Formula: C₁₀₆H₁₇₈N₄₀O₃₂S₇

Batch Molecular Weight: 2749

Physical Appearance: White lyophilised solid

Peptide Sequence:



Storage: Desiccate at -20°C

Solubility & Usage Info:

Soluble to 1 mg/ml in water

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Counter Ion: TFA

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Peptides in solution are much less stable than in lyophilized form. This is especially true for peptides whose sequences contain amino acids such as Cys, Met, Trp, Asn, Gln, and N-terminal Glu.

Therefore we recommend storing peptides in solution for as short a time as possible. Avoid repeated freeze thaw cycles by dividing the peptide solution into aliquots and storing the aliquots at -20°C. Any portion of an aliquot unused after thawing should be discarded.

Peptides stored in solution can occasionally be susceptible to bacterial degradation. We recommend using sterile solutions or passing the peptide solution through a 0.2 µm filter to remove potential bacterial contamination whenever possible.

Other Information:

This is a dual-use item with associated conditions of supply; the relevant licence/documentation from the appropriate governing body will be required.

Note on Biotubes:

Toxins are supplied in protective biotubes. These biotubes have a screw top lid, which is manually tightened and can be easily unscrewed. If the lid is particularly tight, a coin placed in the top slot may be used to unscrew it.

Licensing Information:

Sold under license from the University of Utah.

References:

McDonough *et al* (1996) Inhibition of Ca²⁺ channels in rat central and peripheral neurons by ω -conotoxin MVIIC. *J. Neurosci.* **16** 2612. PMID: 8786437.

Hillyard *et al* (1992) A new conus peptide ligand for mammalian presynaptic Ca²⁺ channels. *Neuron* **9** 69. PMID: 1352986.

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