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>>Entry Name: ω-Conotoxin M VIIA

Synonym(s): ω-Conotoxin M VIIA (reduced) cyclic (1→16), (8→20), (15→25)tris(disulfide). **Ziconotide**, INN, USAN. SNX III

CAS Registry Number: 107452-89-1

Molecular Formula: C<sub>102</sub>H<sub>172</sub>N<sub>36</sub>O<sub>32</sub>S<sub>7</sub>

Molecular Weight: 2639.165

Accurate Mass: 2637.098334

Percentage Composition: C 46.42%; H 6.57%; N 19.11%; O 19.40%; S 8.51%

General Statement: Peptide containing 25 amino acid residues

Biological Source: Isol. from venom of the cone snail *Conus magus*

Use/Importance: Selective blocker of neuronal N-type Ca<sup>2+</sup>-channels. Neuroprotective agent

Development Status: Phase II clinical trials

Sigma: C1182

#### References:

Olivera, B.M. *et al.*, *Biochemistry*, 1987, **26**, 2086, (*isol, synth, activity*)

Bowersox, S.S. *et al.*, *J. Cardiovasc. Pharmacol.*, 1992, **20**, 756, (*pharmacol*)

Stoehr, S.J. *et al.*, *Neurosci. Lett.*, 1993, **161**, 113, (*activity*)

Simmonds, R.G. *et al.*, *Int. J. Pept. Protein Res.*, 1994, **43**, 363, (*synth*)

Bowersox, S. *et al.*, *Drugs of the Future*, 1998, **23**, 152-160, (*rev, pharmacol*)