



# SZABO SCANDIC

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- Trockeneiszuschlag
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- Expressversand

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## $\alpha$ -Conotoxin MII

Cat. No.:	HY-P1365
CAS No.:	175735-93-0
Molecular Formula:	C <sub>67</sub> H <sub>103</sub> N <sub>23</sub> O <sub>22</sub> S <sub>4</sub>
Molecular Weight:	1710.94
Sequence:	Gly-Cys-Cys-Ser-Asn-Pro-Val-Cys-His-Leu-Glu-His-Ser-Asn-Leu-Cys-NH <sub>2</sub> (Disulfide bridge:Cys2-Cys8;Cys3-Cys16)
Sequence Shortening:	GCCSNPVCHLEHSNLC-NH <sub>2</sub> (Disulfide bridge:Cys2-Cys8;Cys3-Cys16)
Target:	nAChR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Sealed storage, away from moisture and light, under nitrogen Powder    -80°C    2 years -20°C    1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)

### BIOLOGICAL ACTIVITY

Description	$\alpha$ -Conotoxin MII ( $\alpha$ -CTxMII), a 16-amino acid peptide from the venom of the marine snail <i>Conus magus</i> , potently blocks nicotinic acetylcholine receptors (nAChRs) composed of $\alpha$ 3 $\beta$ 2 subunits, with an IC <sub>50</sub> of 0.5 nM. $\alpha$ -Conotoxin MII ( $\alpha$ -CTxMII) potently blocks $\beta$ 3-containing neuronal nicotinic receptors <sup>[1][2][3]</sup> .
IC <sub>50</sub> & Target	IC <sub>50</sub> : 0.5 nM ( $\alpha$ 3 $\beta$ 2) <sup>[1]</sup> .
In Vitro	$\alpha$ -Conotoxin MII (0.5-3.5 nM) blocks ACh responses in oocytes expressing $\alpha$ 3 $\beta$ 2 nicotinic acetylcholine receptors <sup>[1][2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. G E Cartier, et al. A New Alpha-Conotoxin Which Targets alpha3beta2 Nicotinic Acetylcholine Receptors. *J Biol Chem*. 1996 Mar 29;271(13):7522-8.
- [2]. S C Harvey, et al. Determinants of Specificity for Alpha-Conotoxin MII on alpha3beta2 Neuronal Nicotinic Receptors. *Mol Pharmacol*. 1997 Feb;51(2):336-42.
- [3]. J M McIntosh, et al. Conus Peptides: Novel Probes for Nicotinic Acetylcholine Receptor Structure and Function. *Eur J Pharmacol*. 2000 Mar 30;393(1-3):205-8.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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