**α-conotoxin MI**

<table>
<thead>
<tr>
<th>Product name</th>
<th>Synonyms: α-CnTx MI</th>
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<td>Catalog #: 08CON012</td>
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**Product description**

α-conotoxin MI has been isolated from the venom of the cone snail Conus magus. This conotoxin acts on postsynaptic membranes. It binds onto and blocks nicotinic acetylcholine receptors (nAChR). α-conotoxin MI blocks mammalian nAChR composed of α1/δ subunits with high potency and α1/γ with low potency.

**Product specifications**

- **AA sequence:** Gly-Arg-Cys^3^-Cys^4^-His-Pro-Ala-Cys^8^-Gly-Lys-Asn-Tyr-Ser-Cys^{14}^-NH$_2$
- **Disulfide bonds:** Cys^3^-Cys^8^ and Cys^4^-Cys^{14}^  
- **Length (aa):** 14  
- **Formula:** C$_{58}$H$_{88}$N$_{22}$O$_{17}$S$_{4}$  
- **Appearance:** White lyophilized solid  
- **Molecular Weight:** 1494.00 Da  
- **CAS number:** 83481-45-2  
- **Source:** Synthetic  
- **Counterion:** TFA salts  
- **Solubility:** Water or saline buffer, 5 mg/mL maximum (recommendation)

**Formulation**

- **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.

**Related products**

- **α-conotoxin IMI - #08CON011:** α7 nAChR selective blocker  
- **α-conotoxin GI - #08CON005:** blocks alpha-delta site of the muscle acetylcholine receptor  
- **αC-conotoxin PrXA - #13CON016:** selective blocker of α1/β1/ε/δ and α1/β1/γ/δ nAChR subunits  
- **Waglerin-1 - #12WAG001:** selective antagonist of muscle nicotinic acetylcholine receptors

**References**


For laboratory research use only