

## α-Conotoxin S IA

Cat. No.:	HY-P3654
CAS No.:	135190-31-7
Molecular Formula:	C <sub>60</sub> H <sub>82</sub> N <sub>18</sub> O <sub>17</sub> S <sub>4</sub>
Molecular Weight:	1455.66
Sequence Shortening:	YCCHPACGKNFDC-NH2 (Disulfide bridge:Cys2-Cys7;Cys3-Cys13)
Target:	nAChR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

### BIOLOGICAL ACTIVITY

#### Description

α-Conotoxin SIA is a selective nicotinic acetylcholine receptor (nAChR) antagonist with high affinity for the muscle nAChR. α-Conotoxin SIA preferentially targets the α/δ interface of the muscle nAChR in mouse muscle. In contrast, for Torpedo nAChR, α-Conotoxin SIA has a much higher affinity for the α/γ than for the α/δ interface<sup>[1]</sup>.

### REFERENCES

[1]. Layla Azam, et al. Alpha-conotoxins as pharmacological probes of nicotinic acetylcholine receptors. *Acta Pharmacol Sin.* 2009 Jun;30(6):771-83.

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

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