

α -Conotoxin Im-I

Cat. No.:	HY-P1270
CAS No.:	156467-85-5
Molecular Formula:	$C_{92}H_{78}N_{20}O_{15}S_4$
Molecular Weight:	1351.56
Sequence Shortening:	Gly-Cys-Cys-Ser-Asp-Pro-Arg-Cys-Ala-Trp-Arg-Cys-NH ₂ (Disulfide bridge:Cys2-Cys8;Cys3-Cys12)
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 Im-I is a selective $\alpha 7/\alpha 9$ nAChR antagonist, blocking $\alpha 7$ nicotinic receptors with the highest apparent affinity, while having an 8-fold lower affinity for homomeric $\alpha 9$ nicotinic receptors. α -Conotoxin Im-I is toxic and induces seizures in rodents. α -Conotoxin Im-I is a tool for studying neuronal nAChR ^{[1][2]} .
IC ₅₀ & Target	$\alpha 7/\alpha 9$ nAChR ^{[1][2]} .

REFERENCES

- [1]. Johnson DS, et al. α -Conotoxin ImI exhibits subtype-specific nicotinic acetylcholine receptor blockade: preferential inhibition of homomeric $\alpha 7$ and $\alpha 9$ receptors.
- [2]. Quiram P A, et al. Pairwise interactions between neuronal $\alpha 7$ acetylcholine receptors and α -conotoxin PnIB. Journal of Biological Chemistry, 2000, 275(7): 4889-4896.

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

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