α-Conotoxin GI

Cat. No.:	HY-137788
CAS No.:	76862-65-2
Molecular Formula:	$C_{55}H_{80}N_{20}O_{18}S_4$
Molecular Weight:	1437.61
Sequence:	Glu-Cys-Cys-Asn-Pro-Ala-Cys-Gly-Arg-His-Tyr-Ser-Cys-NH2 (Disulfide bridge：Cys2-Cys7, Cys3-Cys13)
Sequence Shortening:	ECCNPACGRHYSC-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 GI has high affinity for nAChR.α-Conotoxin GI is a short peptide toxin that can be isolated from the venom of Conus geographus.α-Conotoxin GI has the similar activity with neuromuscular blocking agent[1][2][3].

REFERENCES

[1]. Groebe DR, et al. Determinants involved in the affinity of alpha-conotoxins GI and SI for the muscle subtype of nicotinic acetylcholine receptors. Biochemistry. 1997 May 27;36(21):6469-74.

[2]. Yu S, et al. Sensitive Detection of α-Conotoxin GI in Human Plasma Using a Solid-Phase Extraction Column and LC-MS/MS. Toxins (Basel). 2017 Jul 28;9(8):235.

[3]. Blount K, et al. alpha-Conotoxin GI produces tetanic fade at the rat neuromuscular junction. Toxicon. 1992 Aug;30(8):835-42.

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