

α -Conotoxin BuIA

Cat. No.:	HY-P5148
CAS No.:	846539-62-6
Molecular Formula:	C ₅₄ H ₈₂ N ₁₄ O ₁₆ S ₄
Molecular Weight:	1311.57
Sequence:	Gly-Cys-Cys-Ser-Thr-Pro-Pro-Cys-Ala-Val-Leu-Tyr-Cys-NH ₂ (Disulfide bridge: Cys2-Cys8, Cys3-Cys13)
Sequence Shortening:	GCCSTPPCAVLYC-NH ₂ (Disulfide bridge: Cys2-Cys8, 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 BuIA is a paralytic peptide neurotoxin and a competitive nAChR antagonist, with IC ₅₀ s of 0.258 nM (α 6/ α 3 β 2), 1.54 nM (α 6/ α 3 β 4), 5.72 nM (α 3 β 2), respectively. α -Conotoxin BuIA can be used to distinguish nAChRs containing β 2- and β 4-subunit, respectively. α -Conotoxin BuIA distinguishes among α β 2 nAChRs with a rank order potency of α 6> α 3> α 2> α 4 ^[1] .
IC ₅₀ & Target	IC50: 0.258 nM (α 6/ α 3 β 2), 1.54 nM (α 6/ α 3 β 4), 5.72 nM (α 3 β 2) ^[1]

REFERENCES

[1]. Azam L, et al. Alpha-conotoxin BuIA, a novel peptide from *Conus bullatus*, distinguishes among neuronal nicotinic acetylcholine receptors. J Biol Chem. 2005 Jan 7;280(1):80-7.

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

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