

α -Conotoxin Bt1.8

Cat. No.:	HY-P5850
Molecular Formula:	C ₆₃ H ₁₀₀ N ₂₂ O ₂₂ S ₄
Molecular Weight:	1645.86
Sequence:	Gly-Cys-Cys-Ser-Asn-Pro-Ala-Cys-Ile-Leu-Asn-Asn-Pro-Asn-Gln-Cys-NH ₂ (Disulfide bridge:Cys2-Cys8;Cys3-Cys16)
Sequence Shortening:	GCCSNPACILNPNQC-NH ₂ (Disulfide bridge:Cys2-Cys8;Cys3-Cys16)
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 Bt1.8 is a potent $\alpha 6/\alpha 3\beta 2\beta 3$ and $\alpha 3\beta 2$ nAChRs inhibitor with IC ₅₀ s of 2.1 nM and 9.4 nM against rat $\alpha 6/\alpha 3\beta 2\beta 3$ and $\alpha 3\beta 2$, respectively ^[1] .
IC₅₀ & Target	IC ₅₀ : 2.1 nM (rat $\alpha 6/\alpha 3\beta 2\beta 3$), 9.4 nM (rat $\alpha 3\beta 2$), 2150 nM ($\alpha 3\beta 4$) ^[1]

REFERENCES

[1]. Ning H, et al. α -Conotoxin Bt1.8 from *Conus betulinus* selectively inhibits $\alpha 6/\alpha 3\beta 2\beta 3$ and $\alpha 3\beta 2$ nicotinic acetylcholine receptor subtypes. *J Neurochem*. 2021 Oct;159(1):90-100.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA