α-Conotoxin TxID

Cat. No.:	HY-P5306
CAS No.:	1496617-64-1
Molecular Formula:	$C_{58}H_{92}N_{18}O_{18}S_5$
Molecular Weight:	1489.79
Sequence:	Gly-Cys-Cys-Ser-His-Pro-Val-Cys-Ser-Ala-Met-Ser-Pro-Ile-Cys-NH2 (disulfide bridge:Cys2-Cys8,Cys3-Cys15)
Sequence Shortening:	GCCSHPVCSAMSPIC-NH2 (disulfide bridge:Cys2-Cys8,Cys3-Cys15)
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 TxID is a potent α3β4 nAChR antagonist with an IC_{50} value of 12.5 nM. α-Conotoxin TxID has weak inhibition activity of closely related α6/α3β4 nAChR (IC_{50}= 94 nM). α-Conotoxin TxID has the potential for novel smoking cessation drug development[1].
IC_{50} & Target	IC50: α3β4 nAChR

REFERENCES

[1]. Xiaodan Li, et al. α-Conotoxin TxID and [S9K]TxID, α3β4 nAChR Antagonists, Attenuate Expression and Reinstatement of Nicotine-Induced Conditioned Place Preference in Mice. . Mar Drugs. 2020 Dec 16;18(12):646. doi: 10.3390/md18120646.

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

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