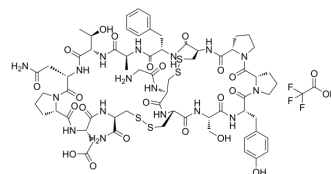


α -Conotoxin AuIB TFA

Cat. No.:	HY-P1269A
Molecular Formula:	C ₆₇ H ₉₀ F ₃ N ₁₇ O ₂₃ S ₄
Molecular Weight:	1686.79
Sequence:	Gly-Cys-Cys-Ser-Tyr-Pro-Pro-Cys-Phe-Ala-Thr-Asn-Pro-Asp-Cys-NH ₂ (Disulfide bridge: Cys2-Cys8;Cys3-Cys15)
Sequence Shortening:	GCCSYPPCFATNPDC-NH ₂ (Disulfide bridge:Cys2-Cys8;Cys3-Cys15)
Target:	nAChR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Sealed storage, away from moisture Powder -80°C 2 years -20°C 1 year * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 110 mg/mL (65.21 mM); Need ultrasonic					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		0.5928 mL	2.9642 mL	5.9284 mL
5 mM			0.1186 mL	0.5928 mL	1.1857 mL	
	10 mM		0.0593 mL	0.2964 mL	0.5928 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: PBS Solubility: 100 mg/mL (59.28 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	α -Conotoxin AuIB TFA, a potent and selective α 3 β 4 nicotinic acetylcholine receptor (nAChR) antagonist, blocks α 3 β 4 nAChRs expressed in Xenopus oocytes with an IC ₅₀ of 0.75 μ M ^[1] .
IC₅₀ & Target	IC ₅₀ : 0.75 μ M (α 3 β 4 nAChR; in Xenopus oocytes) ^[1]
In Vitro	α -Conotoxin AuIB blocks the α 3 β 4 receptor with >100-fold higher potency than other receptor subunit combinations, including α 2 β 2, α 2 β 4, α 3 β 2, α 4 β 2, α 4 β 4, and α 1 β 1 γ δ ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Siqin Luo, et al. α -Conotoxin AuIB Selectively Blocks $\alpha 3\beta 4$ Nicotinic Acetylcholine Receptors and Nicotine-Evoked Norepinephrine Release. *Journal of Neuroscience*. 1998 Nov 1, 18 (21): 8571-8579.

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

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