Product Data Sheet

α-Conotoxin PnIA TFA

Cat. No.: HY-P1267A

Molecular Formula: $C_{67}H_{96}F_{3}N_{19}O_{24}S_{4}$

Molecular Weight: 1736.82

Sequence: Gly-Cys-Cys-Ser-Leu-Pro-Pro-Cys-Ala-Ala-Asn-Asn-Pro-Asp-Tyr-Cys-NH2 (Disulfide bri

GCCSLPPCAANNPDYC-NH₂ (Disulfide bridge:Cys₂-Cys₈;Cys₃-Cys₁₆) (TFA salt) dge:Cys2-Cys8;Cys3-Cys16)

Sequence Shortening: GCCSLPPCAANNPDYC-NH2 (Disulfide bridge:Cys2-Cys8;Cys3-Cys16)

Target:

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

DMSO: 100 mg/mL (57.58 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg
	1 mM	0.5758 mL	2.8788 mL	5.7576 mL
	5 mM	0.1152 mL	0.5758 mL	1.1515 mL
	10 mM	0.0576 mL	0.2879 mL	0.5758 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- 1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (1.44 mM); Clear solution
- 2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)

Solubility: ≥ 2.5 mg/mL (1.44 mM); Clear solution

3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (1.44 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

 $\alpha\text{-}Conotoxin PnIA TFA, a potent and selective antagonist of the mammalian } \alpha 7 \text{ nAChR, has the potential for the research of the mammalian } \alpha 7 \text{ nAChR, has the potential for the research of the mammalian } \alpha 7 \text{ nAChR, has the potential for the research of the mammalian } \alpha 7 \text{ nAChR, has the potential for the research of the mammalian } \alpha 7 \text{ nAChR, has the potential for the research of the mammalian } \alpha 7 \text{ nAChR, has the potential for the research of the mammalian } \alpha 7 \text{ nAChR, has the potential for the research of the mammalian } \alpha 7 \text{ nAChR, has the potential for the research of the mammalian } \alpha 7 \text{ nAChR, has the potential for the research of the mammalian } \alpha 7 \text{ nAChR, has the potential for the research of the mammalian } \alpha 7 \text{ nAChR, has the potential for the research of the mammalian } \alpha 7 \text{ nAChR, has the potential for the research of the mammalian } \alpha 7 \text{ nAChR, has the potential for the research of the mammalian } \alpha 7 \text{ nAChR, has the potential for the research of the mammalian } \alpha 7 \text{ nAChR, has the potential for the research of the mammalian } \alpha 7 \text{ nAChR, has the potential for the research of the mammalian } \alpha 7 \text{ nAChR, has the potential for the research of the mammalian } \alpha 7 \text{ nAChR, has the potential for the research of the mammalian } \alpha 7 \text{ nAChR, has the potential for the research of the mammalian } \alpha 7 \text{ nAChR, has the potential for the research of the mammalian } \alpha 7 \text{ nAChR, has the potential for the research of the mammalian } \alpha 7 \text{ nAChR, has the potential for the research of the mammalian } \alpha 7 \text{ nAChR, has the potential for the research of the mammalian } \alpha 7 \text{ nAChR, has the potential for the research of the mammalian } \alpha 7 \text{ nAChR, has the potential for the research of the mammalian } \alpha 7 \text{ nAChR, has the potential for the research of the mammalian } \alpha 7 \text{ nAChR, has the potential for the research of the mammalian } \alpha 7 \text{ nAChR, has the potential for the research of the mammalian } \alpha 7 \text{ nAChR, has the potential for the research of the mammal$ neurological conditions such as neuropathic pain and Alzheimer's disease^[1].

REFERENCES

1]. Gene Hopping, et al. Hydro Receptors. Biochem Pharmacc		10 of α-conotoxin PnIA Influence S	Subtype Selectivity Between $\alpha 7$ and $\alpha 3\beta 2$ Neurona	l Nicotinic Acetylcholine
	Caution: Product has n	ot been fully validated for me	dical applications. For research use only.	
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