

μ-Conotoxin PIIIA

Cat. No.:	HY-P5145
CAS No.:	184840-20-8
Molecular Formula:	C ₁₀₃ H ₁₆₆ N ₄₀ O ₂₈ S ₆
Molecular Weight:	2605.06
Sequence:	{Pyr}-Arg-Leu-Cys-Cys-Gly-Phe-{Hyp}-Lys-Ser-Cys-Arg-Ser-Arg-Gln-Cys-Lys-{Hyp}-His-Arg-Cys-Cys-NH ₂ (Disulfide bridge: Cys4-Cys16, Cys5-Cys21 and Cys11-Cys22)
Sequence Shortening:	{Pyr}-RLCCGF-{Hyp}-KSCRSRQCK-{Hyp}-HRCC-NH ₂ (Disulfide bridge: Cys4-Cys16, Cys5-Cys21 and Cys11-Cys22)
Target:	Sodium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	μ-Conotoxin PIIIA is a sodium channel (NaV 1.4) blocker. μ-Conotoxin PIIIA can be isolated from <i>Conus purpurascens</i> ^{[1][2]} .
IC ₅₀ & Target	NaV1.4 Channel ^[1]

REFERENCES

[1]. Tietze AA, et al. Structurally diverse μ-conotoxin PIIIA isomers block sodium channel NaV 1.4. *Angew Chem Int Ed Engl.* 2012 Apr 23;51(17):4058-61.

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

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