

μ-Conotoxin KIIIA

Cat. No.:	HY-P5141
CAS No.:	884469-67-4
Molecular Formula:	C ₇₀ H ₁₀₆ N ₂₈ O ₂₂ S ₆
Molecular Weight:	1884.16
Sequence:	Cys-Cys-Asn-Cys-Ser-Ser-Lys-Trp-Cys-Arg-Asp-His-Ser-Arg-Cys-Cys-NH ₂ (Disulfide bonds Cys1-Cys9, Cys2-Cys15, Cys4-Cys16)
Sequence Shortening:	CCNCSSKWCRDHSRCC-NH ₂ (Disulfide bonds Cys1-Cys9, Cys2-Cys15, Cys4-Cys16)
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 KIIIA is an analgesic μ-conotoxin that can be isolated from <i>Conus kinoshitai</i> . μ-Conotoxin KIIIA blocks mammalian neuronal voltage-gated sodium channels (VGSCs) (Nav1.2). μ-Conotoxin KIIIA can be used for research of pain ^[1] ^[2] .
IC ₅₀ & Target	NaV1.2 Channel ^[2]

REFERENCES

- [1]. Khoo KK, et al. Structure of the analgesic mu-conotoxin KIIIA and effects on the structure and function of disulfide deletion. *Biochemistry*. 2009 Feb 17;48(6):1210-9.
- [2]. Pan X, Li Z, et al. Molecular basis for pore blockade of human Na⁺ channel Nav1.2 by the μ-conotoxin KIIIA. *Science*. 2019 Mar 22;363(6433):1309-1313.

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

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