μ-Conotoxin GIIIB

Cat. No.:	HY-P2700
CAS No.:	140678-12-2
Molecular Formula:	C ₁₀₁ H ₁₇₅ N ₃₉ O ₃₀ S ₇
Molecular Weight:	2640.17
Sequence:	Arg-Asp-Cys-Cys-Thr-{Hyp}-{Hyp}-Arg-Lys-Cys-Lys-Asp-Arg-Arg-Cys-Lys-{Hyp}-Met-Lys -Cys-Cys-Ala (Disulfide bridge:Cys3-Cys15,Cys4-Cys20,Cys10-Cys21)
Sequence Shortening:	RDCCT-{Hyp}-{Hyp}-RKCKDRRCK-{Hyp}-MKCCA (Disulfide bridge:Cys3-Cys15,Cys4-Cys 20,Cys10-Cys21)
Target:	Sodium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

biocodical Activity	
Description	μ-Conotoxin GIIIB is a 22-residue polypeptide that can be isolated from the venom of piscivorous cone snail Conus geographus. μ-Conotoxin GIIIB is a Na _V 1.4 channel inhibitor. μ-Conotoxin GIIIB blocks muscle cell's contraction ^{[1][2][3]} .
IC ₅₀ & Target	NaV1.4 Channel ^[2]

REFERENCES

[1]. orres NS. Activation of reverse Na+-Ca2+ exchanger by skeletal Na+ channel isoform increases excitation-contraction coupling efficiency in rabbit cardiomyocytes. Am J Physiol Heart Circ Physiol. 2021 Feb 1;320(2):H593-H603.

[2]. Garcia N, et al. Involvement of the Voltage-Gated Calcium Channels L- P/Q- and N-Types in Synapse Elimination During Neuromuscular Junction Development. Mol Neurobiol. 2022 Jul;59(7):4044-4064.

[3]. Hill JM, et al. Three-dimensional solution structure of mu-conotoxin GIIIB, a specific blocker of skeletal muscle sodium channels. Biochemistry. 1996 Jul 9;35(27):8824-35.

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

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Product Data Sheet

