

ω-Conotoxin CVIF

Cat. No.:	HY-P5804
Molecular Formula:	C ₁₀₁ H ₁₇₀ N ₄₀ O ₃₃ S ₆
Molecular Weight:	2665.07
Sequence:	Cys-Lys-Gly-Lys-Gly-Ala-Ser-Cys-Arg-Arg-Thr-Ser-Tyr-Asp-Cys-Cys-Thr-Gly-Ser-Cys-Arg-Leu-Gly-Arg-Cys-NH ₂ (Disulfide bridge:Cys1-Cys16, Cys8-Cys20 and Cys15-Cys27)
Sequence Shortening:	CKGKGASCRRTSYDCCTGSCRLGRC-NH ₂ (Disulfide bridge:Cys1-Cys16, Cys8-Cys20 and Cys15-Cys27)
Target:	Calcium Channel
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	ω-Conotoxin CVIF is a selective Ca _v 2.2 channel inhibitor with an IC ₅₀ of 34.3 nM in rat isolated DRG neurons. ω-Conotoxin CVIF block of Cav2.2 channels is weakly reversible ^[1] .
IC₅₀ & Target	IC ₅₀ : 34.3 nM (Ca _v 2.2 in rat isolated DRG neurons) ^[1]

REFERENCES

[1]. Berecki G, et al. Effects of arginine 10 to lysine substitution on ω-conotoxin CVIE and CVIF block of Cav2.2 channels. Br J Pharmacol. 2014 Jul;171(13):3313-27.

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

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