

Conantokin R

Cat. No.:	HY-P1285
CAS No.:	202925-60-8
Molecular Formula:	C ₁₂₇ H ₂₀₁ N ₃₅ O ₄₉ S ₃
Molecular Weight:	3098.35
Sequence:	Gly-Glu-{Gla}-{Gla}-Val-Ala-Lys-Met-Ala-Ala-{Gla}-Leu-Ala-Arg-{Gla}-Asn-Ile-Ala-Lys-Gly-Cys-Lys-Val-Asn-Cys-Tyr-Pro (Disulfide bridge:Cys21-Cys25)
Sequence Shortening:	GE-{Gla}-{Gla}-VAKMAA-{Gla}-LAR-{Gla}-NIAKGCKVNCYP (Disulfide bridge:Cys21-Cys25)
Target:	iGluR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Conantokin R (Con-R) is an NMDA receptor peptide antagonist with an IC ₅₀ of 93 nM. Conantokin R binds Zn ²⁺ and Mg ²⁺ with K _d s of 0.15 μM and 6.5 μM, respectively. Conantokin R shows anticonvulsant activity ^{[1][2]} .
IC ₅₀ & Target	IC50: 93 nM (NMDA receptor) ^[1]

REFERENCES

[1]. Blandl T, et al. Structure-function relationships of the NMDA receptor antagonist peptide, conantokin-R. FEBS Lett. 2000 Mar 24;470(2):139-46.

[2]. White HS, et al. In vitro and in vivo characterization of conantokin-R, a selective NMDA receptor antagonist isolated from the venom of the fish-hunting snail *Conus radiatus*. J Pharmacol Exp Ther. 2000 Jan;292(1):425-32.

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

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