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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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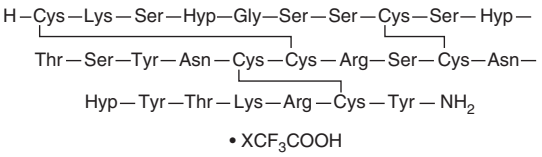
PRODUCT INFORMATION

ω-Conotoxin GVIA (trifluoroacetate salt)

Item No. 24114

Formal Name: L-cysteinyl-L-lysyl-L-seryl-(4R)-4-hydroxy-L-prolylglycyl-L-seryl-L-seryl-L-cysteinyl-L-seryl-(4R)-4-hydroxy-L-prolyl-L-threonyl-L-seryl-L-tyrosyl-L-asparaginyl-L-cysteinyl-L-cysteinyl-L-arginyl-L-seryl-L-cysteinyl-L-asparaginyl-(4R)-4-hydroxy-L-prolyl-L-tyrosyl-L-threonyl-L-lysyl-L-arginyl-L-cysteinyl-L-tyrosinamide, cyclic (1→16),(8→19),(15→26)-*tris*(disulfide), trifluoroacetate salt



Synonym: SNX-124

MF: $C_{120}H_{182}N_{38}O_{43}S_6 \bullet XCF_3COOH$

FW: 3,037.4

Purity: ≥95%

Supplied as: A lyophilized powder

Storage: -20°C

Stability: ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

ω-Conotoxin GVIA (trifluoroacetate salt) is supplied as a lyophilized powder. A stock solution may be made by dissolving the ω-conotoxin GVIA (trifluoroacetate salt) in water. The solubility of ω-conotoxin GVIA (trifluoroacetate salt) in water is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

ω-Conotoxin GVIA is a peptide originally isolated from the marine mollusk *C. geographus* that acts as an N-type calcium channel blocker.[1,2] It binds to human neocortical, rat hippocampal, and chick brain synaptic plasma membranes (IC_{50}s = 4.6, 60, and 150 pM, respectively, in radioligand binding assays).[3-5] ω-Conotoxin GVIA inhibits norepinephrine (Item No. 16673) and acetylcholine (Item No. 23829) release from human neocortical slices (IC_{50}s = 14 and 3 nM, respectively) and calcium influx into chick synaptosomes by 92% when used at a concentration of 0.1 µM.[3,4] It blocks electrically-evoked twitch responses of rat vas deferens and guinea pig ileum (IC_{50}s = 9.8 and 55 nM, respectively) but does not affect the postjunctional contractile responses induced by norepinephrine on vas deferens or by carbamoylcholine (carbachol; Item No. 14486) on ileum.[6] ω-Conotoxin GVIA does not affect potassium-induced contraction of rat aorta at concentrations up to 1 µM.

References

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2. McCleskey, E.W., Fox, A.P., Feldman, D.H., *et al. Proc. Natl. Acad. Sci. U.S.A.* **84(12)**, 4327-4331 (1987).
3. Feuerstein, T.J., Dooley, D.J., and Seeger, W. *J. Pharmacol. Exp. Ther.* **252(2)**, 778-785 (1990).
4. Lampe, R.A., Lo, M.M., Keith, R.A., *et al. Biochemistry* **32(13)**, 3255-3260 (1993).
5. Sato, K., Park, N.G., Kohno, T., *et al. Biochem. Biophys. Res. Commun.* **194(3)**, 1292-1296 (1993).
6. Keith, R.A., Mangano, T.J., Pacheco, M.A., *et al. J. Auton. Pharmacol.* **9(4)**, 243-252 (1989).

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