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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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PRODUCT INFORMATION



Tertiapin Q (trifluoroacetate salt)

Item No. 36907

Formal Name: L-alanyl-L-leucyl-L-cysteinyl-L-asparaginyl-L-cysteinyl-L-asparaginyl-L-arginyl-L-iso-leucyl-L-iso-leucyl-L-iso-leucyl-L-prolyl-L-histidyl-L-glutamyl-L-cysteinyl-L-tryptophyl-L-lysyl-L-lysyl-L-cysteinylglycyl-L-lysyl-L-lysineamide, cyclic (3→14),(5→18)-bis(disulfide), trifluoroacetate salt

Synonyms: TPN(M13Q), TPNQ

Peptide Sequence: ALCNCNRRIIPHQCWKKCGKK-NH₂

MF: C₁₀₆H₁₇₅N₃₅O₂₄S₄ • XCF₃COOH

FW: 2,452.0

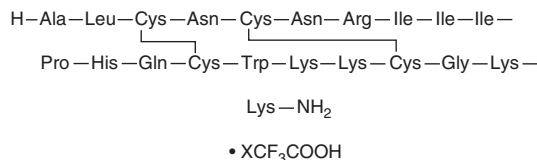
Purity: ≥95%

Supplied as: A solid

Storage: -20°C

Stability: ≥4 years

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



Laboratory Procedures

Tertiapin Q (trifluoroacetate salt) is supplied as a solid. A stock solution may be made by dissolving the tertiapin Q (trifluoroacetate salt) in water. We do not recommend storing the aqueous solution for more than one day.

Description

Tertiapin Q is a peptide derivative of the honeybee venom peptide and inhibitor of inwardly rectifying potassium (K_{ir}) channels, tertiapin.¹ It inhibits heteromultimeric potassium channels composed of G protein-activated inward rectifier potassium channel 1 (GIRK1) and GIRK4, also known as K_{ir}3.1 and K_{ir}3.4, respectively, as well as the inward-rectifier potassium channel 1 (K_{ir}1.1; K_s = 13.3 and 1.3 nM, respectively).² Tertiapin Q inhibits voltage-stimulated hyperpolarization and increases action potential duration in mouse dorsal root ganglion neurons in a concentration-dependent manner.³ It inhibits BK-type potassium channels in *Xenopus* oocytes expressing the human BK channel α subunit (IC₅₀ = 5.8 nM).

References

1. Jin, W., Klem, A.M., Lewis, J.H., *et al.* Mechanisms of inward-rectifier K⁺ channel inhibition by tertiapin-Q. *Biochemistry* **38(43)**, 14294-14301 (1999).
2. Jin, W. and Lu, Z. Synthesis of a stable form of tertiapin: A high-affinity inhibitor for inward-rectifier K⁺ channels. *Biochemistry* **38(43)**, 14286-14293 (1999).
3. Kanjhan, R., Coulson, E.J., Adams, D.J., *et al.* Tertiapin-Q blocks recombinant and native large conductance K⁺ channels in a use-dependent manner. *J. Pharmacol. Exp. Ther.* **314(3)**, 1353-1361 (2005).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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