PRODUCT INFORMATION



Biotin-Amyloid-β (1-28) Peptide (human) (trifluoroacetate salt)

Item No. 27109

Formal Name: $L-\alpha$ -aspartyl-L-alanyl-L- α -glutamyl-L-phenylalanyl-L-

arginyl-L-histidyl-L-α-aspartyl-L-serylglycyl-L-tyrosyl-L-α-glutamyl-L-valyl-L-histidyl-L-histidyl-L-glutaminyl-L-lysyl-L-leucyl-L-valyl-L-phenylalanyl-L-phenylalanyl-

L-alanyl-L-α-glutamyl-L-α-aspartyl-L-valylglycyl-Lseryl-L-asparaginyl-L-lysine, trifluoroacetate salt

Biotin-Aβ (1-28), Biotin-Aβ28

Synonyms: MF: C₁₅₅H₂₂₃N₄₃O₄₈S • XCF₃COOH

FW: 3,488.8 **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

Biotin-amyloid-ß (1-28) peptide (human) (trifluoroacetate salt) is supplied as a solid. A stock solution may be made by dissolving the biotin-amyloid-β (1-28) peptide (human) (trifluoroacetate salt) in water. The solubility of biotin-amyloid-β (1-28) peptide (human) (trifluoroacetate salt) in water is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Biotin-amyloid- β (1-28) peptide is a biotinylated peptide. Amyloid- β (1-28) (A β 28) is a synthetic peptide that lacks 14 C-terminal amino acids and is more soluble than $A\beta 42.^{1}$ $A\beta 28$ forms fibrils and plaques in vitro that are similar to those formed by A β 42 and induces learning deficits in a passive avoidance task in rats.²⁻⁴ Biotin-amyloid-β (1-28) peptide is comprised of Aβ28 conjugated to biotin (Item No. 22582) at its amino terminus.

References

- 1. Syme, C.D., Nadal, R.C., Rigby, S.E., et al. Copper binding to the amyloid-beta (Aβ) peptide associated with Alzheimer's disease. Folding, coordination geometry, pH dependence, stoichiometry, and affinity of AB(1-28): Insights from a range of complementary spectroscopic techniques. J. Biol. Chem. 279(18), 18169-18177 (2004).
- 2. Kirschner, D.A., Inouye, H., Duffy, L.K., et al. Synthetic peptide homologous to β protein from Alzheimer disease forms amyloid-like fibrils in vitro. Proc. Natl. Acad. Sci. U.S.A. 84(19), 6953-6957 (1987).
- 3. Burdick, D., Soreghan, B., Kwon, M., et al. Assembly and aggregation properties of synthetic Alzheimer's A4/β amyloid peptide analogs. J. Biol. Chem. 267(1), 546-554 (1992).
- 4. Alvarez, X.A., Miguel-Hidalgo, J.J., Fernández-Novoa, L., et al. Intrahippocampal injections of the beta-amyloid 1-28 fragment induces behavioral deficits in rats. Methods Find. Exp. Clin. Pharmacol. 19(7), 471-479 (1997).

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

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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