PRODUCT INFORMATION

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

Item No. 27107

Formal Name: L-α-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-L-seryl-L-asparaginyl-L-lysine, trifluoroacetate salt

Synonyms: Aβ (1-28), Aβ28

MF: $C_{145}H_{209}N_{41}O_{46} \bullet XCF_3COOH$

FW: 3,262.5

Purity: ≥95%

Supplied as: A crystalline 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

Amyloid-β (1-28) peptide (human) (trifluoroacetate salt) is supplied as a crystalline solid. Aqueous solutions of amyloid-β (1-28) peptide (human) (trifluoroacetate salt) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of amyloid-β (1-28) peptide (human) (trifluoroacetate salt) in PBS, pH 7.2, is approximately 0.15 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Amyloid-β (1-28) (Aβ28) is a synthetic peptide that lacks 14 C-terminal amino acids and is more soluble than Aβ42 (Item No. 20574).[1] Aβ28 forms fibrils and plaques *in vitro* that are similar to those formed by Aβ42 and induces learning deficits in a passive avoidance task in rats.[2-4]

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 Aβ(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. USA* **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).

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM