

β-amyloid (12-28)**Cat. No.:** RP20104**Size:** 0.5 mg**Description:**

Aβ (12–28) residues are the binding site for apolipoprotein E (apoE) on Aβ. This sequence encompasses a hydrophobic domain (residues 14–21) and a β-turn (residues 22–28) which place two hydrophobic domains of Aβ 14 to 21 and 29 to 40/42 opposite each other, allowing for the assembly of Aβ peptides into fibrils. The secondary structure of Aβ (12- 28), a neutral peptide, is dominated by α-helix and random coil. The interaction of apoE with residues 12 to 28 of Aβ is not just a non-specific hydrophobic interaction but plays a pivotal role in the mechanism of Aβ pathology in Alzheimer's disease (AD). Beta-amyloid (12-28) and five other fragments enhanced aggregation of full length Aβ (1-40). All of the peptides that enhance aggregation contained either residues 17 to 20 or 30 to 35, indicating the importance of these regions for promoting aggregation of full-length Aβ.

Sequence (one-letter code):

VHHQKLVFFAEDVGSNK

Sequence (three-letter code): $\{\text{Val}\}\{\text{His}\}\{\text{His}\}\{\text{Gln}\}\{\text{Lys}\}\{\text{Leu}\}\{\text{Val}\}\{\text{Phe}\}\{\text{Phe}\}\{\text{Ala}\}\{\text{Glu}\}\{\text{Asp}\}\{\text{Val}\}\{\text{Gly}\}\{\text{Ser}\}\{\text{Asn}\}\{\text{Lys}\}$ **Formula:** C₈₉H₁₃₅N₂₅O₂₅**Molecular Weight:** 1,955.19**Purity:** 95%**Storage:**

Store GenScript β-amyloid (12-28) at -20°C.

Note:

*For Non-Clinical Research Use Only *

