DATASHEET
Version: 2016-08-18

β-amyloid (12-28)

Cat. No.: RP20104

Size: 0.5 mg

Description:

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

Sequence (one-letter code):

VHHQKLVFFAEDVGSNK

Sequence (three-letter code):

{Val}{His}{His}{Gln}{Lys}{Leu}{Val}{Phe}{Phe}{Ala}{Glu}{Asp}{Val}{Gly}{Ser}{Asn}{Lys}

Formula: $C_{89}H_{135}N_{25}O_{25}$

Molecular Weight: 1,955.19

Purity: 95%

Storage:

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

Note:

*For Non-Clinical Research Use Only *