

# Amyloid $\beta$ -Peptide (1-42) (human)

Catalog No: tcsc0032566



## Available Sizes

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**Size:** 1mg



## Specifications

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**CAS No:**

107761-42-2

**Formula:**

$C_{203}H_{311}N_{55}O_{60}S$

**Pathway:**

Neuronal Signaling

**Target:**

Amyloid- $\beta$

**Purity / Grade:**

>95.64%

**Solubility:**

10 mM in DMSO

**Storage Instruction:**

Powder -80°C 2 years -20°C 1 year In solvent -80°C 6 months -20°C 1 month

**Alternative Names:**

$\beta$ -Amyloid (1-42), human

**Observed Molecular Weight:**

4514.04

**Sequence:**

H-Asp-Ala-Glu-Phe-Arg-His-Asp-Ser-Gly-Tyr-Glu-Val-His-His-Gln-Lys-Leu-Val-Phe-Phe-Ala-Glu-Asp-Val-Gly-Ser-Asn-Lys-Gly-Ala-Ile-Ile-Gly-Leu-Met-Val-Gly-Gly-Val-Val-Ile-Ala-OH

## Product Description

Amyloid  $\beta$ -Peptide (1-42) human is a 42-amino acid peptide which plays a key role in the pathogenesis of Alzheimer disease.

**In Vitro:** Amyloid  $\beta$ -Peptide (1-42) human is a 42-amino acid peptide which plays a key role in the pathogenesis of Alzheimer disease. Application of Amyloid  $\beta$ -Peptide (1-42) human (1 to 10  $\mu$ M) in the bathing solution does not change delayed rectifier  $K^+$ -current and leakage current, but enhances inactivation of  $Ca^{2+}$ -current and blocks  $Ca^{2+}$ -dependent  $K^+$ -current<sup>[1]</sup>. At 2.5  $\mu$ M concentration, Amyloid  $\beta$ -Peptide (1-42) human reduces viability of SH-SY5Y cells to 65%. Results show that Amyloid  $\beta$ -Peptide (1-42) human localizes in both the cytoplasm and nucleus of SH-SY5Y cells after 30 min of incubation and after 8 h. In the latter, large accumulations of Amyloid  $\beta$ -Peptide (1-42) human are seen in the cytoplasm and in the nucleus. Increased APP mRNA levels are also detected upon Amyloid  $\beta$ -Peptide (1-42) human treatment<sup>[2]</sup>.

DAEFRHDSGYEVHHQKLVFFAEDVGSNKGAAIIGLMVGGVVIA

All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!