

Amyloid β -Peptide (1-42) (human)

Catalog No: tcsc0032566



Available Sizes

Size: 1mg



Specifications

CAS No:

107761-42-2

Formula:

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

Pathway:

Neuronal Signaling

Target:

Amyloid- β

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:

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

In Vitro: Amyloid β -Peptide (1-42) human is a 42-amino acid peptide which plays a key role in the pathogenesis of Alzheimer disease. Application of Amyloid β -Peptide (1-42) human (1 to 10 μ 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^[1]. At 2.5 μ M concentration, Amyloid β -Peptide (1-42) human reduces viability of SH-SY5Y cells to 65%. Results show that Amyloid β -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 β -Peptide (1-42) human are seen in the cytoplasm and in the nucleus. Increased APP mRNA levels are also detected upon Amyloid β -Peptide (1-42) human treatment^[2].

DAEFRHDSGYEVHHQKLVFFAEDVGSNKGAAIIGLMVGGVVIA

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