Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

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

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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 μM) 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 μM 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