

DATASHEET

Version: 2016-08-18

β -Amyloid (1-42), human

Cat. No.: RP10017-0.5

Size: 0.5 mg

Description:

This peptide is well suited to the quantitative determination of A 42 peptide. Alzheimer's disease (AD) is characterized by the presence of extracellular plaques and intracellular neurofibrillary tangles (NFTs) in the brain. The major protein component of these plaques is beta amyloid peptide (A), a 40- to 43- amino-acid peptide cleaved from amyloid precursor protein by secretase (BACE) and a putative (gamma) secretase. Increased release of the 'longer forms' of A peptide, A 42 and A 43, which have a greater tendency to aggregate than A 40, occurs in individuals expressing certain genetic mutations, expressing certain ApoE alleles or may other, still undiscovered factors.

Cas No: 107761-42-2

Sequence (one-letter code):

DAEFRHDSGYEVHHQKLVFFAEDVGSNKGAIIGLMVGGVVIA

Sequence (three-letter code):

{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}

Solubility: Soluble in water

Formula: C₂₀₃H₃₁₁N₅₅O₆₀S₁

Molecular Weight: 4,514.1

Purity: > 95%

Storage:

Store at -20°C

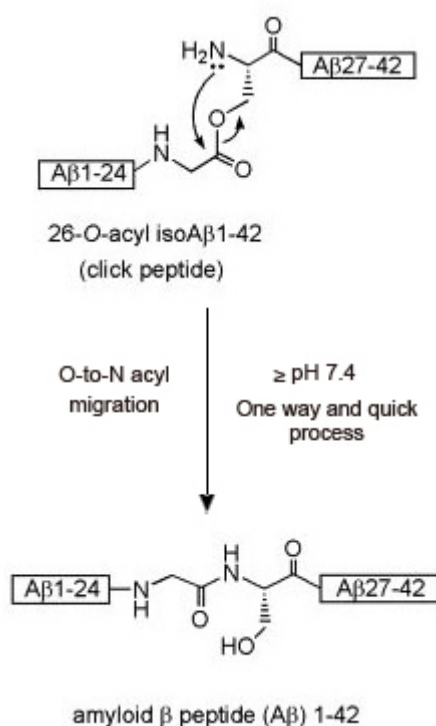
Note: This product is a chemically-modified β -amyloid (1-42) precursor, which belongs to GenScript's click peptides. The click peptides; are best described by the following key features:

1. Enhanced Stability—The O-acyl moiety within the click peptide is stable even under acidic pH.

2. Convenient and quick process—The click peptides can be easily converted to native peptide at pH 7.4 or above.

3. No by-product formation in the conversion process.

4. Superior quality—After the click, the aggregative property of the peptides is significantly minimized compared to its native format.



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