

Rev01  
Update: Dec,28,2022

**DATASHEET**

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

Cat. No.: RP10017CN

## Overview

<b>Description</b>	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.
<b>Cas No</b>	107761-42-2
<b>Sequence</b>	{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}
<b>Sequence Shortening</b>	DAEFRHDSGYEVHHQKLVFFAEDVGSNKGAIIGLMVGGVVIA
<b>Molecular Formula</b>	C <sub>203</sub> H <sub>311</sub> N <sub>55</sub> O <sub>60</sub> S <sub>1</sub>
<b>Molecular Weight</b>	4514.1

## Properties

<b>Purity</b>	> 95%
<b>Solubility</b>	Soluble in water
<b>Form</b>	Lyophilized
<b>Storage</b>	Store at -20°C

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<b>Note</b>	<p>This product is a chemically-modified <math>\beta</math>-amyloid (1-42) precursor, which belongs to GenScript's click peptides. The click peptides; are best described by the following key features:</p> <ol style="list-style-type: none"><li>1. Enhanced Stability—The O-acyl moiety within the click peptide is stable even under acidic pH.</li><li>2. Convenient and quick process—The click peptides can be easily converted to native peptide at pH 7.4 or above.</li><li>3. No by-product formation in the conversion process.</li><li>4. Superior quality—After the click, the aggregative property of the peptides is significantly minimized compared to its native format.</li></ol>
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