

## Beta - Amyloid (1 - 40)

Cat. No. APP-1191H Lot. No. (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Description</b>	<p><math>\beta</math>-Amyloid (1-40) together with <math>\beta</math>-Amyloid (1-42) are two major C-terminal variants of the <math>\beta</math>-Amyloid protein constituting the majority of <math>\beta</math>-Amyloids. These undergo post-secretory aggregation and deposition in the Alzheimer's disease brain. This gene encodes a cell surface receptor and transmembrane precursor protein that is cleaved by secretases to form a number of peptides. Some of these peptides are secreted and can bind to the acetyltransferase complex APBB1/TIP60 to promote transcriptional activation, while others form the protein basis of the amyloid plaques found in the brains of patients with Alzheimer disease. Mutations in this gene have been implicated in autosomal dominant Alzheimer disease and cerebroarterial amyloidosis (cerebral amyloid angiopathy). Multiple transcript variants encoding several different isoforms have been found for this gene.</p>
<b>Sequence</b>	<p>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-OH (3-letter code) DAEFRHDSGYEVHHQKLVFFAEDVGSNKGAIIGLMVGGVV (1-letter code)</p>
<b>Purity</b>	Peak Area By HPLC $\geq$ 95%
<b>Molecular Weight</b>	4329.9
<b>Form</b>	Lyophilized

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**Reconstitution** Use 1.0% NH<sub>4</sub>OH as the solvent, followed by buffer (i.e. 1X PBS). Add 1.0% NH<sub>4</sub>OH directly to the Lyophilized peptide powder (add 35-40 µl to 0.5 mg peptide or 70-80 µl to 1 mg peptide). The peptide cannot be stored long term in 1.0% NH<sub>4</sub>OH, and it is therefore important to immediately dilute this solution with 1X PBS or other buffer to a concentration of approximately 1mg/mL or less. Gently vortex to mix.

**Storage** Peptide is shipped at ambient temperature. Upon receipt, store lyophilized powder at -20°C or lower. Reconstituted peptide should be aliquoted into several freezer vials and stored at -20°C or lower. Do not freeze thaw.

**Official Symbol** APP

## GENE INFORMATION

**Gene Name** APP amyloid beta (A4) precursor protein [ Homo sapiens ]

**Synonyms** amyloid beta (A4) precursor protein ; APP; AAA; AD1; PN2; ABPP; APPI; CVAP; ABETA; PN-II; CTFgamma ; preA4; protease nexin-II; peptidase nexin-II; beta-amyloid peptide; alzheimer disease amyloid protein; cerebral vascular amyloid peptide

**Gene ID** 351

**mRNA Refseq** NM\_000484

**Protein Refseq** NP\_000475

**MIM** 104760

**UniProt ID** P05067

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<b>Chromosome Location</b>	21q21
<b>Pathway</b>	Activated TLR4 signaling; Alzheimer"s disease; Caspase cascade in apoptosis
<b>Function</b>	DNA binding; DNA binding; acetylcholine receptor binding

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