

Recombinant Human APP

Cat. No. APP-27315TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment: EVHHQKLVFFAEDVGSNKGAIL, corresponding to amino acids 11-40 of Human Amyloid beta precursor protein, 3151.7 Daltons.
Species	Human
Source	E.coli
ProteinLength	11-40 a.a.
Description	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.
Tissue specificity	Expressed in all fetal tissues examined with highest levels in brain, kidney, heart and spleen. Weak expression in liver. In adult brain, highest expression found in the frontal lobe of the cortex and in the anterior perisylvian cortex-opercular gyri. Mod
Form	Lyophilised: Resuspend in 1% NH ₄ OH to a concentration of 1 mg/mL. Sonicate for 30 seconds to 1 minute after the powder has gone into solution. After resuspension, add 5x or 10x buffer stock (PBS, TBS) and water to bring to 1x buffer. Upon reconstitution

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	main
Storage	Store at -20°C. Stable for 12 months at -20°C
Sequences of amino acids	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
Sequence Similarities	Belongs to the APP family.Contains 1 BPTI/Kunitz inhibitor domain.
GENE INFORMATION	
Gene Name	APP amyloid beta (A4) precursor protein [Homo sapiens]
Official Symbol	APP
Synonyms	APP; amyloid beta (A4) precursor protein; AD1, Alzheimer disease; amyloid beta A4 protein; peptidase nexin II;
Gene ID	351
mRNA Refseq	NM_000484
Protein Refseq	NP_000475
Uniprot ID	P05067
Chromosome Location	21q21.2
Pathway	Activated TLR4 signalling, organism-specific biosystem; Advanced glycosylation endproduct receptor signaling, organism-specific biosystem; Alzheimers disease,

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organism-specific biosystem; Alzheimers disease, conserved biosystem; Amyloids, organism-specific biosystem;

Function

DNA binding; PTB domain binding; acetylcholine receptor binding; heparin binding; identical protein binding;

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