

Recombinant Full Length Human APP Protein, GST-tagged

Cat. No. APP-1153HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human APP full-length ORF (AAH04369.1, 19 a.a. - 305 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	19-305 amino acids
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. In addition, two of the peptides are antimicrobial peptides, having been shown to have bacteriocidal and antifungal activities. 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. [provided by RefSeq, Aug 2014]
Molecular Mass	57.31 kDa
AA Sequence	EVPTDGNAGL LAEPQIAMFC GRLNMHNMVQ NGKWDSDSPG TKTCIDTKEG ILQYCQEVYP ELQITNVVEA NQPVTIQNWC KRGRKQCKTH PHFVIPYRCL VGEFVSDALL VPDKCKFLHQ ERMDVCETHL HWHTVAKETC SEKSTNLHDY

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GMLLPCGIDK FRGVEFVCCP LAEESDNVDS ADAEEDDSV WWGGADTDYA
 DGSEDKVVEV AEEEEVAEVE EEEADDDDED EDGDEVVEEA EEPYEEATER
 TTSIATTTTT TTESVEEVVR EKWYKEVHSG QARWLML

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
 Antibody Production; Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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; preA4; protease nexin-II; peptidase nexin-II; beta-amyloid peptide; alzheimer disease amyloid protein; cerebral vascular amyloid peptide; AAA; AD1; PN2; ABPP; APPI; CVAP; ABETA; PN-II; CTFgamma

Gene ID

351

mRNA Refseq

NM_000484

Protein Refseq

NP_000475

MIM

104760

UniProt ID

P05067

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