

Recombinant Human APP Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. APP-5154H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	APP MS Standard C13 and N15-labeled recombinant protein (NP_958816) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	83 kDa
AA Sequence	MLPGLALLLLAAWTARALEVPTDGNAGLLAEPQIAMFCGRLNMHMNVQNGKWDS PSGTKTCIDTKEGILQYCQEVPELQITNVVEANQPVTIQNWCKRGRKQCKTHPHFV IPYRCLVGEFVSDALLVPDKCKFLHQERMDVCETHLHWHTVAKETCSEKSTNLHDY

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GMLPCGIDKFRGVEFVCCPLAEESDNVDSADAEEDDSVWWGGADTDYADGSE
 DKVVEVAEEEEVAEVEEEEADDDDEDDGDEVEEEEAEPEYEEATERTTTSIATTTTTT
 TESVEEVVREVCSEQAETGPCRAMISRWFYFDVTEGKCAPFFYGGCGGNRNNFDTE
 EYCMVAVCGSAIPTTAASTPDAVDKYLETPGDENEHAHFQKAKERLEAKHRERMSQV
 MREWEEAERQAKNLPKADKKAVIQHFQEKVESLEQEAANERQQLVETHMARVEAM
 LNDRRRLALENYITALQAVPPRPRHVFNMLKKYVRAEQKDRQHTLKHFEHVRMVDP
 KKAAQIRSQVMTHLRVIYERMNQSLSLLYNPAVAEEIQDEVDELLQKEQNYSDDL
 ANMISEPRISYGNLALMPSLTETKTTVELLPVNGEFLDDLQPWHSFGADSVANTE
 NEVEPVDARPAADRGLTTRPGSGLTNIKTEEISEVKMDAEFRHDSGYEVHHQKLVFF
 AEDVGSNKGAIIGLMVGGVVIATVIVITLVMLKKKQYTSIHGVEVDAAVTPEERHLS
 KMQQNGYENPTYKFFEQMQNTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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

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

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peptide; alzheimer disease amyloid protein; cerebral vascular amyloid peptide; AAA;
AD1; PN2; ABPP; APPI; CVAP; ABETA; PN-II; CTFgamma;

Gene ID 351

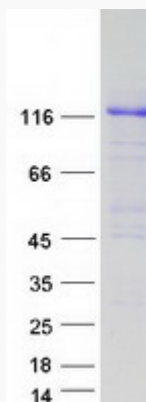
mRNA Refseq NM_201413

Protein Refseq NP_958816

MIM 104760

UniProt ID P05067

SDS-PAGE



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