

Recombinant Human APP, His-tagged

Cat. No. APP-15839H **Lot. No.** (See product label)

SPECIFICATION

| | |
|-------------------------|---|
| Product Overview | Recombinant human APP protein, fused to His tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography. |
| Species | Human |
| Source | E.coli |
| ProteinLength | 18-289aa |
| Description | APP, also known as amyloid beta A4 protein, functions as 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). |
| Form | Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT |
| Molecular Mass | 34.7 kDa (308aa) confirmed by MALDI-TOF(Molecular size on SDS-PAGE will appear higher) |
| AA Sequence | MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSLEVP TDGNAGLLAE PQIAMFCGRL NMHMNVQNGK WSDPSGTKT CIDTKEGILQ YCQEVYPELQ ITNVVEANQP VTIQNWCKRG RKQCKTHPHF VIPYRCLVGE FVSDALLVPD |

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KCKFLHQERM DVCETHLHWH TVAKETCSEK STNLHDYGML LPCGIDKFRG
 VEFVCCPLAE ESDNVDSADA EEDSDVWWG GADTDYADGS EDKVVVEVAEE
 EEVAEVEEEEE ADDDEDEDG DEVVEEAEEP YEEATERSTS IATTTTTTTE
 SVEEVVRE

Purity >85% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at 4°C short term. For long term storage, aliquot and store at at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 1mg/ml (determined by Bradford assay)

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](#)

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| | |
|----------------------------|---|
| MIM | 104760 |
| UniProt ID | P05067 |
| Chromosome Location | 21q21.2 |
| Pathway | Activated TLR4 signalling, organism-specific biosystem; Advanced glycosylation endproduct receptor signaling, organism-specific biosystem; Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Amyloids, organism-specific biosystem; Caspase cascade in apoptosis, organism-specific biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; |
| Function | DNA binding; PTB domain binding; acetylcholine receptor binding; heparin binding; identical protein binding; peptidase activator activity; peptidase inhibitor activity; protein binding; receptor binding; serine-type endopeptidase inhibitor activity; transition metal ion binding; |

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