

Recombinant Human Amyloid Beta (A4) Precursor Protein, His-tagged

Cat. No. APP-051H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant humanAPP protein,fused to His-tag at N-terminus, was expressed in E. coli andpurified by using conventional chromatography.
Species	Human
Source	E.coli
Description	APP iscleaved by secretases to form a number of peptides. Some of these peptidesare secreted and can bind to the acetyltransferase complex APBB1/TIP60 topromote transcriptional activation, while others form the protein basis of theamyloid plaques found in the brains of patients with Alzheimer disease.Mutations in this gene have been implicated in autosomal dominant Alzheimerdisease and cerebroarterial amyloidosis (cerebral amyloidangiopathy).
Form	Liquid. 20mMTris-HCl buffer (pH8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT.
Molecular Weight	34.7 kDa (308confirmed by MALDI-TOF
Purity	> 85% by SDS-PAGE
Concentration	1 mg/ml(determined by Bradford assay)
Sequences of aminoacids	MRGSHHHHHHGMASMTGGQQ MGRDLYDDDD KDRWGSLEVP TDGNAGLLAE PQIAMFCGRL NMHMNVQNGKWSDPSGTKT CIDTKEGILQ YCQEVYPELQ

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ITNVVEANQP VTIQNWCKRG RKQCKTHPHF VIPYRCLVGEFVSDALLVPD
 KCKFLHQERM DVCETHLHWH TVAKETCSEK STNLHDYGML LPCGIDKFRG
 VEFVCCPLAEESDNVDSADA EEDSDVWWG GADTDYADGS EDKVVEVAEE
 EEVAEVEEEEE ADDEDEDG DEVVEEAEEPVEEATERTTS IATTTTTTTE
 SVEEVVRE

Storage Can bestored at +4°C short term (1-2 weeks). For long term storage, aliquot andstore at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

OfficialSymbol APP

nullValue_other Pathway Activated TLR4 signalling;Alzheimer"s disease; Formation of Platelet plug; GPC R ligand binding;Glypican 1 network; Hemostasis; Innate Immunity Signaling; Pla teletActivation; Platelet degranulation; Signaling by GPCR; Signaling in Immunes ystem; TRAF6 mediated NF-kB activation; Toll Receptor Cascades; Toll LikeRec eptor 2 Cascade; Toll Like Receptor 3 (TLR3) Cascade

GENE INFORMATION

Gene Name APP amyloid beta (A4) precursorprotein [Homo sapiens]

Synonyms APP; amyloid beta (A4) precursor protein;AAA; AD1; PN2; ABPP; APPI; CVAP; ABETA; CTFgamma; amyloid beta A4 protein;PN-II; preA4; protease nexin-II; OTTHUMP00000096095; OTTHUMP00000096096;OTTHUMP00000096097; OTTHUMP00000096098; OTTHUMP00000225525; peptidasenexin-II; beta-amyloid peptide; alzheimer disease amyloid protein; cerebralvascular amyloid peptide; Alzheimer disease; human mRNA for amyloid A4precursor of Alzheimer"s disease; A4

Gene ID 351

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mRNA Refseq	NM_000484
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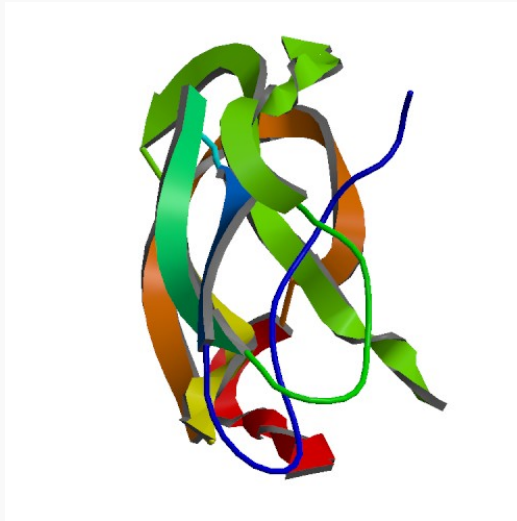
Protein Refseq	NP_000475
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MIM	104760
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UniProt ID	P05067
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Chromosome Location	21q21.2
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PDBrendering based
on 1aap.



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