

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 NMHMNVQNGKWDSDPGSKT CIDTKEGILQ YCQEVYPELQ

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ITNVVEANQP VTIQNWCKRG RKQCKTHPHF VIPYRCLVGEFVSDALLVPD
KCKFLHQERM DVCETHLHWH TVAKETCSEK STNLHDYGML LPCGIDKFRG
VEFVCCPLAEESDNVDSADA EEDDSVWWG GADTDYADGS EDKVVEVAEE
EEVAEVEEEE ADDEDEDG DEVVEEAEEPYEEATERTTS 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

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