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

Cat. No. APP-6866H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	A DNA sequence encoding the amino acids (Asp 672 - Val 713) of human APP, corresponding to the Beta-amyloid protein 42, was fused with the N-terminal polyhistidine-tagged GST-tagged tag at the N-terminus. It consists of 278 amino acids and has a calculated molecular mass of 32.3 kDa.
Species	Human
Source	E.coli
ProteinLength	278aa
Description	APP is a single-pass type I membrane protein which belongs to the APP family. APP functions as a cell surface receptor and performs physiological functions on the surface of neurons relevant to neurite growth, neuronal adhesion and axonogenesis. It couples to apoptosis-inducing pathways such as those mediated by G(O) and JIP.
Predicted N Terminal	Met
Form	Lyophilized from sterile PBS, 10 % glycerol, pH 7.4. Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA.
Molecular Mass	The recombinant human APP / GST-tagged chimera consists of 278 amino acids and has a calculated molecular mass of 32.3 kDa. It migrates as an approximately 34 kDa

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	band in SDS-PAGE under reducing conditions
Purity	>80 % as determined by SDS-PAGE.
Stability	Samples are stable for up to twelve months from date of receipt at -70 °C.
Storage	Store it under sterile conditions at -70°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

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
Chromosome Location	21q21.2

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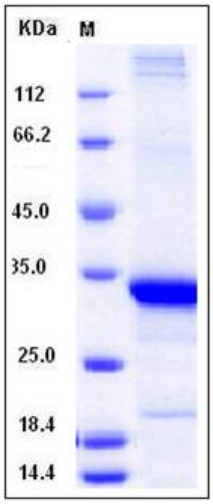
Pathway	Activated TLR4 signalling, organism-specific biosystem; Advanced glycosylation endproduct receptor signaling, organism-specific biosystem; Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Amyloids, organism-specific biosystem; Caspase cascade in apoptosis, 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;
APP protein	

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