

AR50323PU-S

Human Amyloid beta A4 protein / APP (18-289, His-tag) - Purified

Alternate names:	ABPP, APPI, Alzheimer disease amyloid protein, Amyloid Precursor Protein, CVAP, Cerebral vascular amyloid peptide, PreA4, Protease nexin-II
Quantity:	0.1 mg
Concentration:	1 mg/ml (determined by Bradford assay)
Background:	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).
Uniprot ID:	P05067
NCBI:	NP_000475
GeneID:	351
Species:	Human
Source:	E. coli
Format:	State: Liquid purified protein Purity: >85% by SDS - PAGE Buffer System: 20 mM Tris-HCl buffer (pH8.0) containing 20% Glycerol, 0.1M NaCl, 1mM DTT
Description:	Recombinant human APP protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography. AA Sequence: MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSLEVP TDGNAGLLAE PQIAMFCGRL NMHMNVQNGK WSDPSGKT CIDTKEGILQ YCQEVYPELQ ITNVVEANQP VTIQNWCKRG RKQCKTHPHF VIPYRCLVGE FVSDALLVPD KCKFLHQERM DVCETHLHHW TVAKETCSEK STNLHDYGML LPCGIDKFRG VEFVCCPLAE ESDNVDSADA EEDSDVWWG GADTDYADGS EDKVVEVAEE EEVAEVEEEE ADDDEDEDG DEVVEEAEEP YEEATERTTS IATTTTTTTE SVEEVVRE Molecular weight: 34.7 kDa (308aa) confirmed by MALDI-TOF(Molecular size on SDS-PAGE will appear higher)
Storage:	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Kontush A., et al. (2001) Cell. Mol. Neurobiol. 21:299-315. 2. Walter M.F., et al. (2006) Biochem. Biophys. Res. Commun. 233:760-764.

Pictures:

