

# Product information

## APP, 18-289aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1499

**Full name:** Amyloid beta A4 protein

**NCBI Accession No.:** NP\_000475

**Synonyms:** AAA, AD1, PN2, ABPP, APPI, CVAP, ABETA, CTFgamma

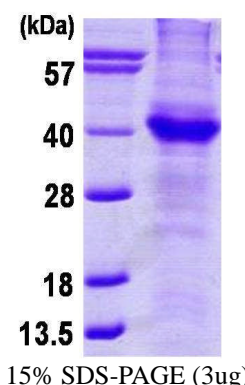
**Description:** APP, also known as amyloid beta A4 protein, functions as a cell surface receptor and transmembrane precursor protein that is cleaved by secretases to form a number of peptides. Some of these peptides are secreted and can bind to the acetyltransferase complex APBB1/TIP60 to promote transcriptional 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). Recombinant human APP protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography.

**Form:** Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol,  
0.1M NaCl, 1mM DTT

**Molecular Weight:** 34.7 kDa (308aa) confirmed by MALDI-TOF  
(Molecular size on SDS-PAGE will appear higher)

**Purity:** > 85% by SDS - PAGE

**Concentration:** 1mg/ml (determined by Bradford assay)



**Sequences of amino acids:**

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSLEVP TDGNAGLLAE PQIAMFCGRL NMHMNVQNGK WSDPSGTKT CIDTKEGILQ  
YCQEVYPELQ ITNVVEANQP VTIQNWCKRG RKQCKTHPHF VIPYRCLVGE FVSDALLVPD KCKFLHQERM DVCETHLHWV TVAKETCSEK  
STNLHDYGML LPCGIDKFRG VEFVCCPLAE ESDNVDSADA EEDSDVWWG GADTDYADGS EDKVVEVAEE EEVAEVEEEEE ADDDEDEDG  
DEVEEEAEEP YEEATERITS IATTTTTTTE SVEEVVRE

**General references:**

Kontush A., *et al.* (2001) *Cell. Mol. Neurobiol.* 21:299-315

Walter M.F., *et al.* (2006) *Biochem. Biophys. Res. Commun.* 233:760-764

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

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**