

Recombinant human APP/Protease Nexin II protein

Catalog Number: ATGP1499

PRODUCT INFORMATION

Expression system

E.coli

Domain

18-289aa

UniProt No.

P05067

NCBI Accession No.

NP_000475.1

Alternative Names

Amyloid beta A4 protein, AAA, AD1, PN2, ABPP, APPI, CVAP, ABETA, CTFgamma

PRODUCT SPECIFICATION

Molecular Weight

34.7 kDa (308aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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

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and purified by using conventional chromatography.

Amino acid Sequence

<MRGSHHHHHH GMASMTGGGQ MGRDLYDDDD KDRWGS>LEVP TDGNAGLLAE PQIAMFCGRL NMHMNVQNGK
WDSDPSGTKT CIDTKEGILQ YCQEVYPELQ ITNVVEANQP VTIQNWCKRG RKQCKTHPHF VIPYRCLVGE FVSDALLVPD
KCKFLHQERM DVCETHLHWH TVAKETCSEK STNLHDYGML LPCGIDKFRG VEFVCCPLAE ESDNVDSADA
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SVEEVVRE

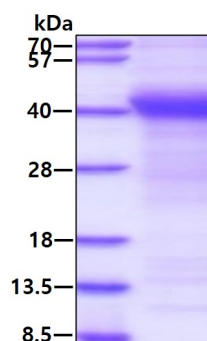
General References

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

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

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.