

APP Amyloid beta (A4) Precursor Protein Human Recombinant Protein

Catalog Number: PROTP05067

Introduction

Amyloid beta A4 protein (APP) functions as a cell surface receptor and transmembrane precursor protein which is cleaved by secretases to form a number of peptides. A number of these peptides are secreted and can bind to the acetyltransferase complex APBB1/TIP60 to stimulate transcriptional activation, whereas others form the protein basis of the amyloid plaques found in the brains of patients with Alzheimer disease. APP gene mutations are implicated in autosomal dominant Alzheimer disease and cerebroarterial amyloidosis (cerebral amyloid angiopathy).

Overview

Product Name	APP Amyloid beta (A4) Precursor Protein Human Recombinant Protein
Description	APP Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 308 amino acids (18-289 a.a) and having a molecular mass of 34.7kDa (Molecular size on SDS-PAGE will appear higher). APP is fused to a 36 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.
Source	E. Coli
Physical Appearance	Sterile Filtered colorless solution.
Formulation	APP protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 0.1M NaCl and 1mM DTT.

Storage

Store in -20°C for long term storage. After reconstitution, store in 4°C for short term usage within a few days. Avoid freeze-thaw cycles.

Purity

Greater than 85.0% as determined by SDS-PAGE.

Amino Acid Sequence

MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSLEVP TDGNAGLLAE PQIAMFCGRL NMHMNVQNGK WSDPSGTKT
CIDTKEGILQ YCQEVYPELQ ITNVVEANQP VTIQNWCKRG RKQCKTHPHF VIPYRCLVGE FVSDALLVPD KCKFLHQERM DVCETHLHWH
TVAKETCSEK STNLHDYGML LPCGIDKFRG VEFVCCPLAE ESDNVDSADA EEDSDVWWG GADTDYADGS EDKVVEVAEE EEVAEVEEEE
ADDEDEDG DEVEEEAEEP YEEATERTTS IATTTTTTTE SVEEVVRE.

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