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## Product Data Sheet

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Product Name: APP Human  
 Cat. No.: GP22751  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Amyloid beta A4 protein; ABPP; APPI; APP; Alzheimer disease amyloid protein; Cerebral vascular amyloid peptide; CVAP; PreA4; Protease nexin-II; PN-II; APP; A4; AD1; AAA; PN2; ABETA; CTFgamma.		
Amino Acid Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSLEVP TDGNAGLLAE PQIAMFCGRL NMHMNVQNGK WSDSPSGTKT CIDTKEGILQ YCQEVYPELQ ITNVVEANQP VTIQNWCKRG RKQCKTHPHF VIPYRCLVGE FVSDALLVPD KCKFLHQERM DVCETHLHWH TVAKETCSEK STNLHDYGML LPCGIDKFRG VEFVCCPLAE ESDNVDSADA EEDSDVWWG GADTDYADGS EDKVEVAEE EEVAEVEEEE ADDDEDEDG DEVEEEAEEP YEEATERTTS IATTTTTTTE SVEEVVRE.		
Formulation	APP protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 0.1M NaCl and 1mM DTT.		

### 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).

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

**Caution: Product has not been fully validated for medical applications. For research use only.**

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

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.

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