

Product datasheet for TP309575

Amyloid Precursor Protein (APP) (NM_201413) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human amyloid beta (A4) precursor protein (APP), transcript variant 2, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC209575 representing NM_201413 Red=Cloning site Green=Tags(s)

MLPGLALLLLAAWTARALEVPTDGNAGLLAEPQIAMFCGRLNMHMNVQNGKWSDPSGKTCIDTKEGIL
QYCQEVPELQITNVVEANQPVTIQNWCKRGRKQCKTHPHFVIPYRCLVGEFVSDALLVPDKCKFLHQR
MDVCETHLHWHTVAKETCSEKSTNLHDYGMLLPCGIDKFRGVFVCCPLAEESDNVDSADAEEEDSDVWWW
GGADTDYADGSEDKVEVAEEEEVAEEEEEAADDEDEDGDEVEEEAEPEYEEATERTTSIATTTTTTT
ESVEEVREVCSEAETGPCRAMISRWYFDVTEGKCAPFFYGGCGGNRNNFDTEEYCMVCGSAIPTTAA
STPDAVDKYLETPGDENEHAHFQKAKERLEAKHRERMSQVMREWEEAERQAKNLPKADKKAVIQHFQEKV
ESLEQEAANERQQLVETHMARVEAMLNDRRLALENYITALQAVPPRPRHVFNMLKKYVRAEQKDRQHTL
KHFEHVRMVDPKKAAQIRSQVMTHLRVIYERMNQSLSLYNVPAVAEEIQDEVDLQKEQNYSDVLAN
MISEPRISYGNDALMPSLTETKTTVELLPVNGEFLDDLQPWHSFGADSVANTENEVEPVDARPAADRG
LTTTPGSGLTNIKTEEISEVKMDAEFRHDSGYEVHHQKLVFFAEDVGSNKGAIIGLMVGGVVIATVIVIT
LVMLKKKQYTSIHGVEVDAAVTPEERHLSKMQQNGYENPTYKFFEQMQN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

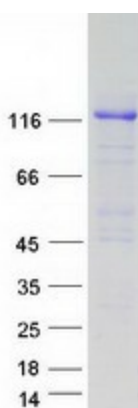
Tag:	C-Myc/DDK
Predicted MW:	83 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Bioactivity:	Enzyme substrate (PMID: 25724648)
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_958816
Locus ID:	351
UniProt ID:	P05067
RefSeq Size:	3584
Cytogenetics:	21q21.3
RefSeq ORF:	2253
Synonyms:	AAA; ABETA; ABPP; AD1; alpha-sAPP; APPI; CTFgamma; CVAP; PN-II; PN2; preA4
Summary:	This gene encodes 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. In addition, two of the peptides are antimicrobial peptides, having been shown to have bacteriocidal and antifungal activities. Mutations in this gene have been implicated in autosomal dominant Alzheimer disease and cerebroarterial amyloidosis (cerebral amyloid angiopathy). Multiple transcript variants encoding several different isoforms have been found for this gene. [provided by RefSeq, Aug 2014]
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Alzheimer's disease

Product images:



Coomassie blue staining of purified APP protein (Cat# TP309575). The protein was produced from HEK293T cells transfected with APP cDNA clone (Cat# [RC209575]) using MegaTran 2.0 (Cat# [TT210002]).