

Product datasheet for PH309575

Amyloid Precursor Protein (APP) (NM_201413) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	APP MS Standard C13 and N15-labeled recombinant protein (NP_958816)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC209575
Predicted MW:	83 kDa
Protein Sequence:	>RC209575 representing NM_201413 Red=Cloning site Green=Tags(s)
	MLPGLALLLLAAWTARALEVPTDGNAGLLAEPQIAMFCGRLNMHMNVQNGKWDSDPSGKTKCIDTKEGIL QYCQEVYPELQITNVVEANQPVTIQNWCKRGRKQCKTHPHFVIPYRCLVGEFVSDALLVPDKCKFLHQER MDVCETHLHWHTYAKETCSEKSTNLHGYMLLPCGIDKFRGVEFVCCPLAEEEDNVDSADAEEEDSDVWW GGADTDYADGSEDKVVEVAEEEEVAVEVEEEEADDEDEDGDEVEEEAEEPVEEAERTTTSIATTTTTTT ESVEEVVREVCSEQAETGPCRAMISRWFYFDVTEGKCAPFFYGGCGGNRNNFDTEEYCMVCGSAIPTTAA STPDAVDKYLETPGDENEHAHFQKAKERLEAKHRERMSQVMREWEAERQAKNLPKADKKAIVIQHFQEKV ESLEQEAANERQQLVETHMARVEAMLNDRRRLALENYITALQAVPPRPRHVFNMLKKYVRAEQKDRQHTL KHFEHVRMVDPKKAAQIRSQVMTHLRVIYERMNQLSLLYNVPAVAEEIQDEVDPELLQKEQNYSDVLAN MISEPRI SYGNDALMPSLTETKTTVELLPVNGEFLSDDLQPVHWSFGADSV PANTENEVEPVDARPAADRG LTTRPGSGLTNIKTEEISEVKMDAEFRHDSGYEVHHQKLVFFAEDVGSNGAIIGLMVGGVVIATVIVIT LVMLKKKQYTSIHGGVVEVDAAVTPEERHLSKMQQNGYENPTYKFFEQMQN
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_958816



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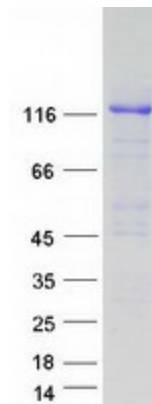
RefSeq Size:	3584
RefSeq ORF:	2253
Synonyms:	AAA; ABETA; ABPP; AD1; alpha-sAPP; APPI; CTFgamma; CVAP; PN-II; PN2; preA4
Locus ID:	351
UniProt ID:	P05067
Cytogenetics:	21q21.3

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]).