

Active Recombinant Human APP Protein, His Tagged

Cat. No. APP-11250H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human APP Protein, His Tag is expressed from human 293 cells (HEK293). It contains AA Leu 18-Met 687 (Accession # P05067-1). This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Leu 18
Species	Human
Source	HEK293
ProteinLength	18-687 aa
Description	Amyloid precursor protein (APP) is a type I integral membrane protein ubiquitously expressed in many tissues and concentrated in the synapses of neurons. The majority of APP is cleaved at the plasma membrane by the α -secretase in the non-amyloidogenic pathway. The amyloidogenic pathway starts with β -secretase cleavage by BACE1 on the N-terminal part of the A β domain, releasing sAPP β from a membrane-anchored fragment named β CTF or C103, which is subsequently cleaved by γ -secretase to release A β .
Form	Lyophilized from 0.22 μ m filtered solution in PBS, pH7.4 with trehalose as protectant.
Bio-activity	Measured by its ability to inhibit trypsin cleavage of a fluorogenic peptide substrate, M ca-RPKPVE-Nval-WRK(Dnp)-NH ₂ . The IC ₅₀ value is <0.8 nM.
Molecular Mass	The protein has a calculated MW of 77.9 kDa. The protein migrates as 95-130 kDa

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	when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.
Endotoxin	Less than 1.0 EU/μg by the LAL method/rFC method.
Purity	>95% as determined by SDS-PAGE.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	APP amyloid beta (A4) precursor protein [Homo sapiens (human)]
Official Symbol	APP
Synonyms	APP; amyloid beta (A4) precursor protein; AD1, Alzheimer disease; amyloid beta A4 protein; peptidase nexin II; preA4; protease nexin-II; peptidase nexin-II; beta-amyloid peptide; alzheimer disease amyloid protein; cerebral vascular amyloid peptide; AAA; AD1; PN2; ABPP; APPI; CVAP; ABETA; PN-II; CTFgamma;
Gene ID	351
mRNA Refseq	NM_000484

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Protein Refseq	NP_000475
MIM	104760
UniProt ID	P05067

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