



## Synonym

ABPP, APP, Amyloid-beta A4 protein

## Source

Human APP Protein, His Tag(APP-H52H3) is expressed from human 293 cells (HEK293). It contains AA Leu 18 - Met 687 (Accession # [P05067-1](#)).

Predicted N-terminus: Leu 18

## Molecular Characterization

APP(Leu 18 - Met 687)  
**P05067-1** Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 77.9 kDa. The protein migrates as 95-130 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per  $\mu$ g by the LAL method / rFC method.

## Purity

>95% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22  $\mu$ m filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

## Storage

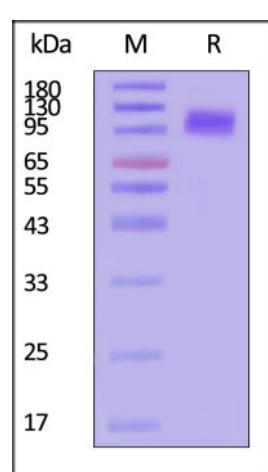
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

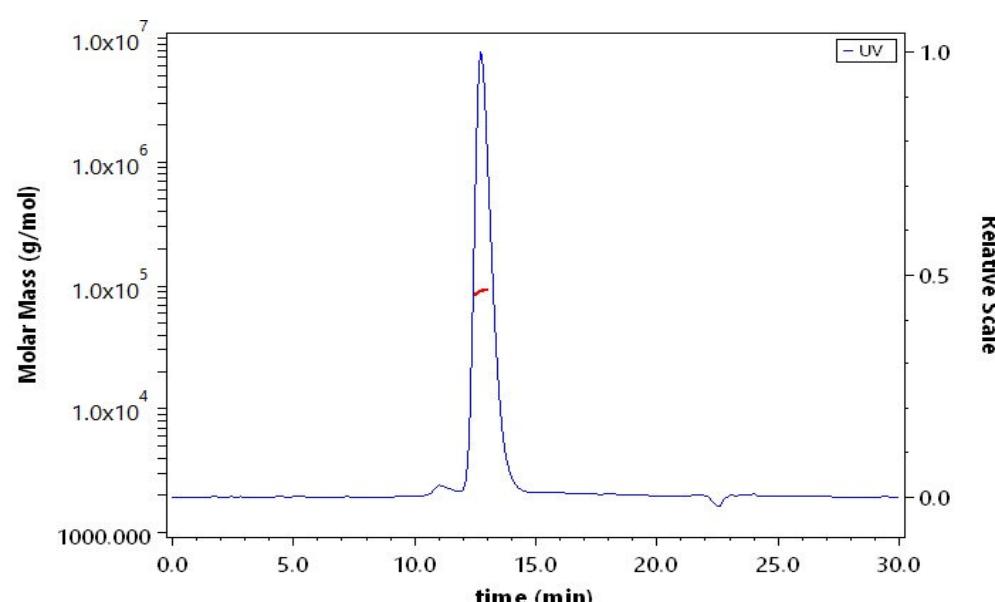
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



Human APP Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

## SEC-MALS



The purity of Human APP Protein, His Tag (Cat. No. APP-H52H3) is more than 85% and the molecular weight of this protein is around 80-110 kDa verified by SEC-MALS.

[Report](#)

## Bioactivity

Measured by its ability to inhibit trypsin cleavage of a fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH2. The IC50 value is <0.8 nM

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(QC tested).

## Background

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  $\alpha$ -secretase in the non-amyloidogenic pathway. The amyloidogenic pathway starts with  $\beta$ -secretase cleavage by BACE1 on the N-terminal part of the A $\beta$  domain, releasing sAPP $\beta$  from a membrane-anchored fragment named  $\beta$ CTF or C103, which is subsequently cleaved by  $\gamma$ -secretase to release A $\beta$ .

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