

Synonym

ABPP,APPI,Amyloid-beta A4 protein

Source

Human SAPPbeta, His Tag(APP-H52H5) is expressed from human 293 cells (HEK293). It contains AA Leu 18 - Met 652 (Accession # [P05067-8](#)).

Predicted N-terminus: Leu 18

Molecular Characterization

APP(Leu 18 - Met 652)  
P05067-8

Poly-his

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

The protein has a calculated MW of 73.8 kDa. The protein migrates as 100-110 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, 0.3 M Arginine, 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

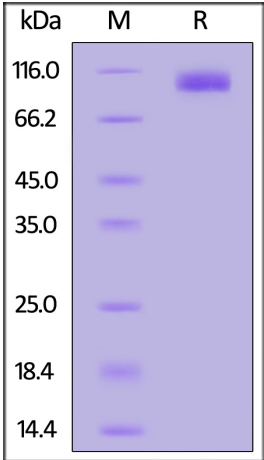
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

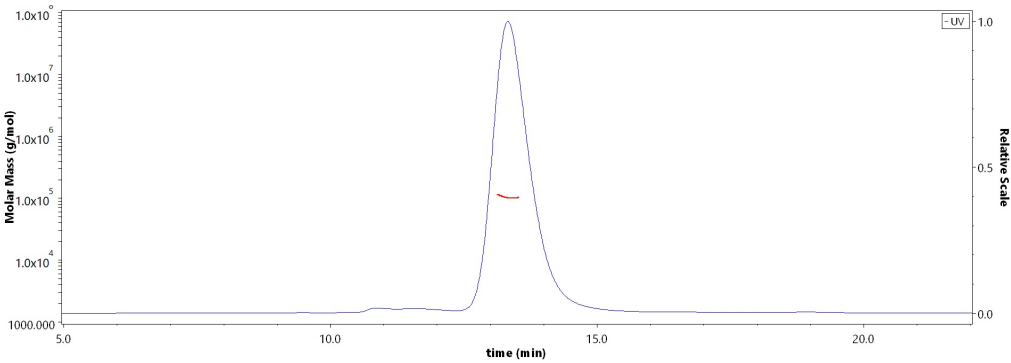
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human SAPPbeta, 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%.

SEC-MALS



The purity of Human SAPPbeta, His Tag (Cat. No. APP-H52H5) is more than 90% and the molecular weight of this protein is around 95-115 kDa verified by SEC-MALS.

[Report](#)

Background

Amyloid precursor protein (APP) is a type I integral membrane protein ubiquitously expressed in many tissues and concentrated in the synapses of neurons. It has

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Human APP / SAPPbeta Protein, His Tag (MALS verified)

Catalog # APP-H52H5



three predominant splice variants: APP695, APP751, and APP770. 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 C99, which is subsequently cleaved by  $\gamma$ -secretase to release A $\beta$ .

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