

Synonym

ABPP, APPI, Amyloid-beta A4 protein

SourceHuman Abeta40, His Tag (APP-H51H7) is expressed from E. coli cells. It contains AA Asp 672 - Val 711 (Accession # [P05067-1](#)).

Predicted N-terminus: Met

Molecular Characterization

APP(Asp 672 - Val 711)
P05067-1 Poly-his

This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 6.3 kDa. The protein migrates as 11 kDa under reducing (R) condition (SDS-PAGE).

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, 0.2 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.

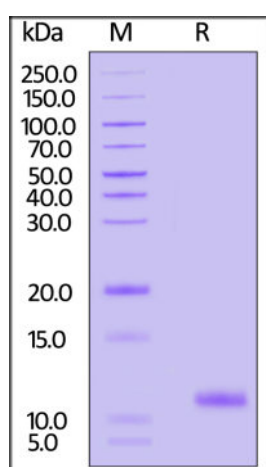
*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.***Storage**

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

Please avoid repeated freeze-thaw cycles.

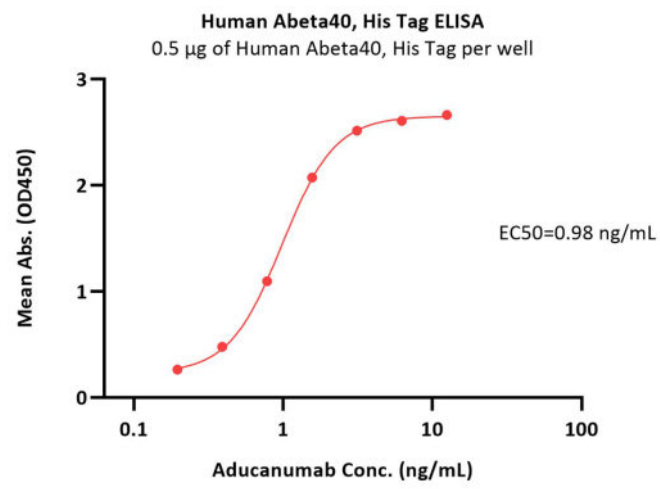
This product is stable after storage at:

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

SDS-PAGE

Human Abeta40, 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%.

Bioactivity-ELISA



Immobilized Human Abeta40, His Tag (Cat. No. APP-H51H7) at 5 µg/mL (100 µL/well) can bind Aducanumab with a linear range of 0.2-2 ng/mL (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. It has three predominant splice variants: APP695, APP751, and APP770. 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 C99, which is subsequently cleaved by γ -secretase to release A β .

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.