

Human APLP1 / Amyloid-like protein 1 Protein (His Tag)

Catalog Number: 13716-H08H



Sino Biological Inc.
Biological Solution Specialist

General Information

Gene Name Synonym:

APLP

Protein Construction:

A DNA sequence encoding the human APLP1 (P51693-1) (Met1-Glu580) was expressed with a polyhistidine tag at the C-terminus.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Ser 39

Molecular Mass:

The recombinant human APLP1 consists of 553 amino acids and predicts a molecular mass of 61.9 KDa. It migrates as an approximately 67-77 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, PH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

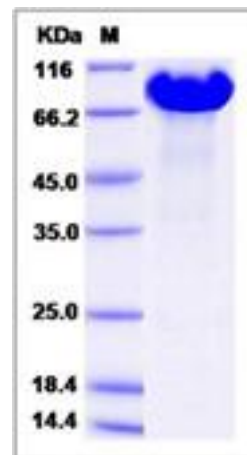
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

APLP1, also known as amyloid-like protein 1, is a member of the highly conserved amyloid precursor protein gene family. APLP1 is a membrane-associated glycoprotein that is cleaved by secretases in a manner similar to amyloid beta A4 precursor protein cleavage. APLP1, together with APLP2, are important modulators of glucose. APLP1 may also play a role in synaptic maturation during cortical development. Alternatively spliced transcript variants encoding different isoforms have been described. APLP1 also is a mammalian homologue of amyloid precursor protein (APP). APP is a type I membrane protein that is genetically linked to Alzheimer's disease.

References

1. Wasco W. et al., 1993, Genomics. 15 (1): 237-9.
2. Needham BE. et al., 2008, J Pathol. 215 (2): 155-63.
3. Bayer TA. et al., 2000, Mol Psychiatry. 4 (6): 524-8.

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