

Recombinant Mouse Aplp1 Protein, His-tagged

Cat. No. Aplp1-295M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Aplp1 (NP_031493.2) (Met1-Glu584) was expressed with a polyhistidine tag at the C-terminus.
Species	Mouse
Source	HEK293
ProteinLength	Met1-Glu584
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.
Predicted N Terminal	Asn 39
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 %- 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Molecular Mass	The recombinant mouse Aplp1 consists of 557 amino acids and predicts a molecular

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	mass of 62.4 kDa.
Endotoxin	< 1.0 EU per µg protein as determined by the LAL method.
Purity	> 95 % as determined by SDS-PAGE.
Storage	Samples are stable for up to twelve months from date of receipt at -70 centigrade. Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. 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/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Aplp1 amyloid beta (A4) precursor-like protein 1 [Mus musculus]
Official Symbol	Aplp1
Synonyms	APLP1; amyloid beta (A4) precursor-like protein 1; amyloid-like protein 1; APLP; APLP-1;
Gene ID	11803
mRNA Refseq	NM_007467
Protein Refseq	NP_031493

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