Data Sheet (Cat.No.TMPY-04693)

TargetMol

APLP1 Protein, Mouse, Recombinant (His)

General Information

Synonyms:	amyloid β (A4) precursor-like protein 1;amyloid beta (A4) precursor-like protein 1
Protein Construction:	A DNA sequence encoding the mouse Aplp1 (NP_031493.2) (Met1-Glu584) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Asn 39
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q03157
Molecular Weight:	62.4 kDa (predicted)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95 % as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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.

Reference

Wasco W. et al., 1993, Genomics. 15 (1): 237-9.
Needham BE. et al., 2008, J Pathol. 215 (2): 155-63.
Bayer TA. et al., 2000, Mol Psychiatry. 4 (6): 524-8.
Lee S. et al., 2011, Biochemistry. 50 (24): 5453-64.

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