Data Sheet (Cat.No.TMPK-00795)

TargetMol

Apolipoprotein A-II/APOA2 Protein, Mouse, Recombinant (hFc)

General Information

Synonyms:	APOA2;Apolipoprotein A-II(1-76);Apolipoprotein A-II;Apolipoprotein A2;Apo-AII;ProapoA-II
Protein Construction:	Ala19-Lys102
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P09813
Molecular Weight:	36.2 kDa (predicted). Due to glycosylation, the protein migrates to 40-45 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Activity has not been tested. 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 Tris-Bis PAGE; > 95% as determined by HPLC
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, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

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

APOA2 is a protein implicated in triglyceride, fatty acid and glucose metabolism. In pigs, the APOA2 gene is located on pig chromosome 4 (SSC4) in a QTL region affecting fatty acid composition, fatness and growth traits.

Reference

Ballester M, et al. Analysis of the porcine APOA2 gene expression in liver, polymorphism identification and association with fatty acid composition traits. Anim Genet. 2016 Oct;47(5):552-9. doi: 10.1111/age.12462. Epub 2016 Jun 14. PMID: 27296287.

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