

## Apolipoprotein A-V/APOA5 Protein, Mouse, Recombinant (His)

### General Information

Synonyms:	ApoA-V;Apolipoprotein A-V;Rap3;Apoa5;Apo-AV;Apolipoprotein A5
Protein Construction:	Arg21-Gly368
Species:	Mouse
Expression Host:	E. coli
Accession:	Q8C7G5
Molecular Weight:	40.5 kDa (predicted) same as 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
Endotoxin:	< 1.0 EU/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 $\mu$ m filtered solution in 20 mM Tris, 500 mM NaCl, 10% Glycerol, 2 mM DTT (pH 8.5).

### Preparation and Storage

#### Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

Proteins are shipped with blue ice.

### Protein Background

APOA5 is probably the gene with the strongest effect on triglyceride (TG) metabolism. APOA5 is almost exclusively expressed in the liver, and its product apoAV has a very low circulating concentration. New physiological roles of apoAV have been recently elucidated, such as control of chylomicron production in the intestine and TG accumulation in adipose tissue. The key role of APOA5 in TG metabolism has been largely shown through genetic studies in association with either severe or moderate hypertriglyceridemia.

#### Reference

Guardiola M, Ribalta J. Update on APOA5 Genetics: Toward a Better Understanding of Its Physiological Impact. *Curr Atheroscler Rep.* 2017 Jul;19(7):30. doi: 10.1007/s11883-017-0665-y. PMID: 28500476.

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