BioVendor - Laboratorní medicína a.s.
Karásek 1767/1
621 00 Brno

Date of issue: 08.11.2017

PRODUCT DATASHEET

Apolipoprotein M Human HEK293

Cat. No.: RD172129100
Type: Recombinant
Size: 0.1 mg
Source: HEK293
Species: Human

Description
Total 179 AA. MW: 20 kDa (calculated), N-Terminal Flag-tag (13 extra AA). UniProt entry O95445.

Other names
Apo M, Protein G3a, G3a, G3A, NG20

Introduction to the molecule
Human Apolipoprotein M (ApoM, protein G3a, NG20-like protein NG20), is a protein that in humans is encoded by the APOM gene. Two different isoforms have been found for this gene. ApoM is a secreted 25kDa member of the lipocalin protein family consisting of 188 amino acids. Human APOM shares sequence identity with pig (91%) and mouse (80%) APOM. The apolipoproteins are a structurally-unrelated group of proteins that all have some role in the transport of lipids in blood. Apolipoproteins plus phospholipids, cholesterol and triglycerides, form spherical particles with a lipid/hydrophobic center and a (apolipo)protein coat. The apolipoprotein coat promotes aqueous solubility and serves as a ligand for lipoprotein receptors. HDL may contain apoliporoteins A,C, D,E, J, L and M, while LDL contains apolipoproteins B and E. Areas of investigation: Lipoprotein metabolism, Obesity, Atherosclerosis, Diabetes mellitus, Immune Response, Infection and Inflammation.

Research topic
Diabetology - Other Relevant Products, Energy metabolism and body weight regulation, Immune Response, Infection and Inflammation, Lipoprotein metabolism

Amino Acid sequence
HVDYKDDDDK PAGCPEHSQL TTLGVDGKEF PEVHLGQWYF IAGAAPTKEE LATFDPVDNI VFNMAAGSAP MQLHLRATIR MKDGLCVPRK WIYHLTEGST DLRTEGRPDM KTELFSSSCP GGIMLNETGQ GYQRFLLYNR SPHPPEKCVE EFKSLTSCLD SKAFLLTPRN QEACELSNN

Purity
Purity as determined by densitometric image analysis > 90%

Endotoxin
<1.0 EU/µg

Formulation:
Filtered (0.4 µm) and lyophilized in 0.5 mg/mL in 20mM TRIS, 50mM NaCl, pH 7.5

Reconstituion:
Add deionized water to prepare a working stock solution of 0.5 mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

Shipping
At ambient temperature. Upon receipt, store the product at the temperature recommended below.

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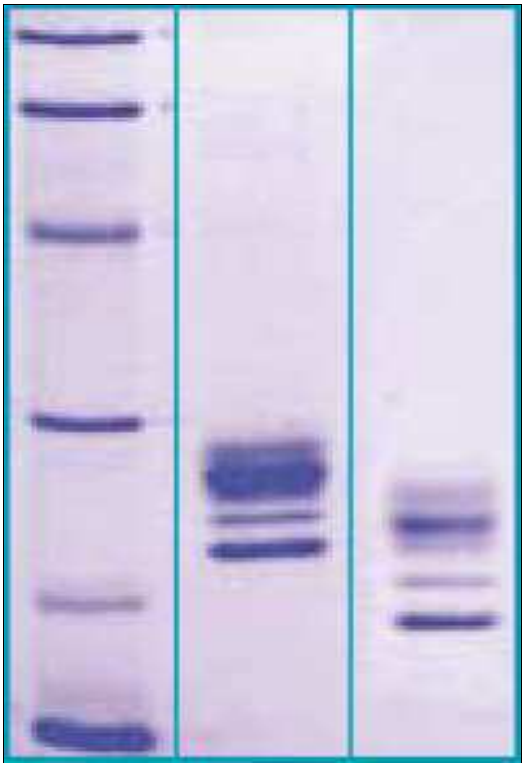
Storage, Stability/Shelf Life
Store lyophilized protein at –80°C. Lyophilized protein remains stable until the expiry date when stored at –80°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at –80°C for long term storage. Reconstituted protein can be stored at 4°C for a week.

Quality control
BCA to determine quantity of the protein.

SDS PAGE to determine purity of the protein.

LAL to determine quantity of endotoxin.

Applications
Cell culture and/or animal studies, ELISA, Western blotting



12% SDS-PAGE separation of Human ApoM
1. M.W. marker – 14, 21, 31, 45, 66, 97 kDa
2. reduced and boiled sample, 5µg/lane
3. non-reduced and non-boiled sample, 5µg/lane

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