

For Research Use Only

Recombinant Mouse CD36 protein (rFc Tag)



Catalog Number: Eg3464

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

HEK293-derived Mouse CD36 protein Gly30-Lys439 (Accession# Q08857) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

12491

Accession:

Q08857

Predicted Molecular Mass:

72.7 kDa

SDS-PAGE:

85-120 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

CD36 is also named as GP3B, GP4, Glycoprotein IIIb (GPIIIB), PAS-4 and Fatty acid translocase (FAT). CD36, also known as the scavenger receptor B2, is a multifunctional receptor widely expressed in various organs. CD36 is a vital molecule in lipid metabolism. In heart and muscle, CD36 is the main (long-chain) fatty acid transporter, regulating myocellular fatty acid uptake via its vesicle-mediated reversible trafficking (recycling) between intracellular membrane compartments and the cell surface. CD36 is subject to various types of post-translational modification. CD36 is expressed in various tissues, including endothelial cells, cardiac muscle cells, renal tubular epithelial cells, liver cells, adipocytes, platelets, and macrophages, and is involved in many pathophysiological processes, including immune regulation and metabolic regulation. CD36 mediates a mitochondrial metabolic switch from oxidative phosphorylation to superoxide production in response to its ligand, oxidized LDL.

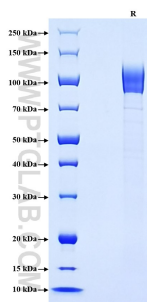
References

1. Shu H, et al. (2022) Cardiovasc Res. 118(1):115-129.
2. Kim TT, Dyck JR. (2016) Biochim Biophys Acta. 1861(10):1450-60.
3. Luiken JJ, et al. (2016) Biochim Biophys Acta. 1862(12):2253-2258.
4. Campbell SE, et al. (2004) J Biol Chem. 279(35):36235-41.
5. Bezaire V, et al. (2006) Am J Physiol Endocrinol Metab. 290(3):E509-15.

Synonyms

Glycoprotein IIIb, GPIIIB, GPIV, PAS IV, PAS-4

Selected Validation Data



Purity of Recombinant Mouse CD36 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

T: 027-87531629

E: Proteintech-CN@ptglab.com

W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.