

# Recombinant Human SR-B3/CD36 Protein

Catalog No.: RP02303 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	948	P16671

### Tags

C-His

### Synonyms

BDPLT10;CHDS7;FAT;GP3B;GP4;GPIV;PASIV;SCARB3;CD36; BDPLT10; CHDS7; FAT; GP3B; GP4; GPIV; PASIV; SCARB3; CD36 molecule

## Product Information

Source	Purification
HEK293 cells	> 95% by Tris-Bis PAGE;> 95% by SEC-HPLC

Calculated MW	Observed MW
47.46 kDa	75-100 kDa

### Endotoxin

< 0.1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

### Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Background

Platelet Glycoprotein 4 (CD36) is an integral membrane glycoprotein that has multiple physiological functions. It is broadly expressed on a variety of cell types including microvascular endothelium, adipocytes, skeletal muscle, epithelial cells of the retina, breast, and intestine, smooth muscle cells, erythroid precursors, platelets, megakaryocytes, dendritic cells, monocytes/macrophages, and microglia. As a member of the scavenger receptor family, CD36 is a multiligand pattern recognition receptor that interacts with a large number of structurally dissimilar ligands, including long chain fatty acid (LCFA), advanced glycation end products (AGE), thrombospondin-1, oxidized lowdensity lipoproteins (oxLDLs), high density lipoprotein (HDL), phosphatidylserine, apoptotic cells, β amyloid fibrils (fAβ), collagens I and IV, and Plasmodium falciparum-infected erythrocytes. CD36 is required for the antiangiogenic effects of thrombospondin-1 in the corneal neovascularization assay. It plays a role in lipid metabolism and has been identified as a fatty acid translocase necessary for the binding and transport of LCFA in cells and tissues.

## Basic Information

### Description

Recombinant Human CD36 Protein is produced by Expi293 expression system. The target protein is expressed with sequence (Gly30-Asn439) of Human CD36 fused with a His tag at the C-terminal.

### Bio-Activity

### Storage

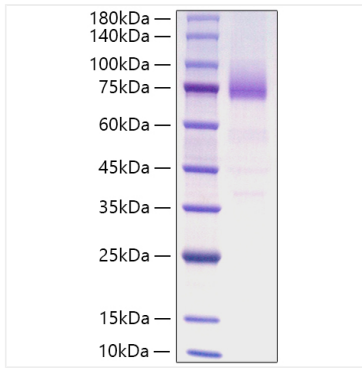
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Human SR-B3/CD36 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 75-100 kDa.