

## CD36 Protein, Cynomolgus, Recombinant (His)

### General Information

Synonyms:	CD36;SCARB3;SRB3;GP3B;FATCHDS7;PAS IV;CHDS7;PAS-4;GPIV;FAT;GPIIIb;BDPLT10;SR-B3
Protein Construction:	Gly30-Asn439
Species:	Cynomolgus
Expression Host:	HEK293 Cells
Accession:	Q4R6B4
Molecular Weight:	47.67 kDa (predicted). Due to glycosylation, the protein migrates to 65-75 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

CD36, alternatively known as platelet membrane glycoprotein IV (GPIV), GPIIIb, thrombospondin receptor, collagen receptor, fatty acid translocase (FAT), and scavenger receptor class B, member 3 (SR-B3), is an integral membrane glycoprotein that has multiple physiological functions. CD36 is a multifunctional glycoprotein that acts as receptor for a broad range of ligands. Ligands can be of proteinaceous nature like thrombospondin, fibronectin, collagen or amyloid-beta as well as of lipidic nature such as oxidized low-density lipoprotein (oxLDL), anionic

phospholipids, long-chain fatty acids and bacterial diacylated lipopeptides.

Reference

Cho, Sunghye. CD36 as a Therapeutic Target for Endothelial Dysfunction in Stroke[J]. Current Pharmaceutical Design, 2012, 18(25):3721-3730.

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