# Recombinant Mouse Cd36 Protein, His-tagged

**Cat. No.** Cd36-365M **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant mouse CD36, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques. |
| **Species** | Mouse |
| **Source** | Insect Cells |
| **Description** | CD36, also known as platelet glycoprotein 4, is an integral membrane glycoprotein that has multiple physiological functions. It is broadly expressed on a variety of cell types. 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. 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. It also plays a significant role in the initiation and pathogenesis of chronic inflammatory diseases such as Alzheimer"s disease and atherosclerosis. It is an integral membrane protein primarily serving as receptors for thrombospondin and collagen and by the erythrocytes infected with the human malaria parasite. |
| **Form** | Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol. |
| **Molecular Mass** | 47.4kDa (419aa)57-70kDa (SDS-PAGE under reducing conditions) |
| **AA Sequence** | ADPGDMLIEK TIKREVVLEE GTTAFKNWVK TGTTVYRQFW IFDVQNPDDV AKNSSKIKVK QRGPYTYRVR YLAKENITQD PEDHTVSFVQPNGAIFEPSL SVGTEDDNFT VLNLAVAAAP HIYQNSFVQV VLNSLIKKSK SSMFQTRSLK |

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| | ELLWGYKDPF LSLVPYPIST TVGVFYPYNDTVDGVYKVFN GKDNISKVAI IESYKGKRNL SYWPSYCDMI NGTDAASFPP FVEKSRTLRF FSSDICRSIY AVFGSEIDLK GIPVYRFVLPANAFASPLQN PDNHCFCTEK VISNNCTSYG VLDIGKCKEG KPVYISLPHF LHASPDVSEP IEGLHPNEDE HRTYLDVEPI TGFTLQFAKRLQVNILVKPA RKIEALKNLK RPYIVPILWL NETGTIGDEK AEMFKTQVTG KIKHHHHHH |
| **Endotoxin** | < 1.0 EU per 1 microgram of protein (determined by LAL method) |
| **Purity** | >95% by SDS - PAGE |
| **Storage** | Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles. |
| **Concentration** | 1mg/ml (determined by Absorbance at 280nm) |

## GENE INFORMATION

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| **Gene Name** | Cd36 CD36 antigen [ Mus musculus ] |
| **Official Symbol** | Cd36 |
| **Synonyms** | CD36; CD36 antigen; platelet glycoprotein 4; PAS-4; GPIIIB; PAS IV; glycoprotein IIIb; fatty acid translocase; platelet glycoprotein IV; FAT; GPIV; Scarb3; |
| **Gene ID** | 12491 |
| **mRNA Refseq** | NM_001159555 |
| **Protein Refseq** | NP_001153027 |

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| **MIM** | |
| **UniProt ID** | |
| **Pathway** | Adipocytokine signaling pathway, organism-specific biosystem; Adipocytokine signaling pathway, conserved biosystem; ECM-receptor interaction, organism-specific biosystem; ECM-receptor interaction, conserved biosystem; Fat digestion and absorption, organism-specific biosystem; Fat digestion and absorption, conserved biosystem; Hematopoietic cell lineage, organism-specific biosystem; |
| **Function** | Gram-negative bacterial cell surface binding; Gram-positive bacterial cell surface binding; high-density lipoprotein particle binding; lipid binding; lipid binding; lipoprotein particle binding; lipoteichoic acid receptor activity; low-density lipoprotein particle binding; low-density lipoprotein particle binding; low-density lipoprotein receptor activity; low-density lipoprotein receptor activity; receptor activity; thrombospondin receptor activity; transforming growth factor beta binding; |

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