
Product Data Sheet

Product Name: CD36 Mouse

Cat. No.: GP23054

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Insect cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Platelet glycoprotein 4; Glycoprotein IIIb; GPIIIB; PAS IV; PAS-4; Platelet glycoprotein IV; GPIV; CD36; Cd36.		
Amino Acid Sequence	ADPGDMLIEK TIKREVVLEE GTTAFKNWVK TGTTVYRQFW IFDVQNPDDVAKNSSKIKVK QRGPTYRVR YLAKENITQD PEDHTVSFVQ PNGAIFEPSL SVGTEDDNFT VLNLAVAAAPHIYQNSFVQV VLNSLIKKSK SSMFQTRSLK ELLWGYKDPF LSLVPYPIST TVGVFYPYND TVDGVYKVFNGKDNISKVAI IESYKGKRNL SYWPSYCDMI NGTDAASFPP FVEKSRTLRF FSSDICRSY AVFGSEIDLKGIPVYRFVLP ANAFASPLQN PDNHCFC TEK VISNNTSYG VLDIGKCKEG KPVYISLPHF LHASP DVSEPIEGLHPNEDE HRTYLDVEPI TGFTLQFAKR LQVNILVKPA RKIEALKNLK RPYIVPILWL NETGTIGDEKAEMFKTQVTG KIKHHHHHH.		
Formulation	CD36 protein solution (1mg/ml) contains phosphate buffered saline (pH7.4) and 10% glycerol.		

Introduction

Platelet glycoprotein IV, also known as CD36 is an integral membrane glycoprotein which has multiple physiological functions. CD36 is broadly expressed on a wide array of cell types. CD36 is part of the scavenger receptor family and acts as a multi-ligand pattern recognition receptor which interacts with a large number of structurally dissimilar ligands. Furthermore, CD36 participates in lipid metabolism and has been known as a fatty acid translocase which is required for the binding as well as transport of LCFA in cells & tissues. CD36 also takes a major part in the initiation as well as pathogenesis of chronic inflammatory diseases such as Alzheimer's disease and atherosclerosis. CD36 is an integral membrane protein which mainly functions as a receptor for thrombospondin & collagen. CD36 directly mediates the cytoadherence of Plasmodium

Caution: Product has not been fully validated for medical applications. For research use only.

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falciparum parasitized erythrocytes.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

CD36 produced in Sf9 Insect cells is a single, glycosylated polypeptide chain containing 419 amino acids (30-439 a.a.) and having a molecular mass of 47.4 kDa (Molecular size on SDS-PAGE will appear at approximately 57-70 kDa). CD36 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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