Proteins

Product Data Sheet



CD36 Protein, Mouse (HEK293, Fc)

Cat. No.: HY-P72733

Glycoprotein IIIb; GPIIIB; PAS IV; PAS-4; Platelet glycoprotein 4; GPIV; CD36 Synonyms:

Species: Source: HEK293

Q08857 (G30-K439) Accession:

Gene ID: 12491

Molecular Weight: 100-130 kDa

PROPERTIES

AA Sequence	
	GDMLIEKTIK REVVLEEGTT AFKNWVKTGT TVYRQFWIFD
	VQNPDDVAKN SSKIKVKQRG PYTYRVRYLA KENITQDPED
	HTVSFVQPNG AIFEPSLSVG TEDDNFTVLN LAVAAAPHIY
	QNSFVQVVLN SLIKKSKSSM FQTRSLKELL WGYKDPFLSL
	VPYPISTTVG VFYPYNDTVD GVYKVFNGKD NISKVAIIES
	YKGKRNLSYW PSYCDMINGT DAASFPPFVE KSRTLRFFSS
	DICRSIYAVF GSEIDLKGIP VYRFVLPANA FASPLQNPDN
	HCFCTEKVIS NNCTSYGVLD IGKCKEGKPV YISLPHFLHA
	SPDVSEPIEG LHPNEDEHRT YLDVEPITGF TLQFAKRLQV
	NILVKPARKI EALKNLKRPY IVPILWLNET GTIGDEKAEM
	FKTQVTGKIK
A	
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Tormutation	Lyophilized from a 0.2 μm filtered solution of r b3, pri 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
LIIdotoxiii Ecvet	-1 Lo/μg, determined by EAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is
Reconstitution	recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
	recommended to dad a carrier protein (0.178 bbs i, 578 hbs i, 1578 hbs if 578 fremaiose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is
,	recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background CD36, a multifunctional glycoprotein, serves as a receptor for a diverse range of ligands, encompassing proteinaceous

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entities like thrombospondin, fibronectin, collagen, amyloid-beta, and lipidic molecules such as oxidized low-density lipoprotein (oxLDL), anionic phospholipids, long-chain fatty acids, and bacterial diacylated lipopeptides. The engagement of these ligands initiates signal transduction and internalization of receptor-ligand complexes, with responses varying in a ligand-specific manner. CD36's involvement spans angiogenesis, inflammatory responses, fatty acid metabolism, taste perception, and dietary fat processing in the intestine. The glycoprotein binds long-chain fatty acids, facilitating their cellular transport and participating in processes such as muscle lipid utilization, adipose energy storage, and gut fat absorption. Mechanistically, fatty acid binding activates downstream kinase LYN, resulting in CD36 depalmitoylation and caveolar endocytosis. CD36 also plays a pivotal role in oral fat perception, influencing preferences and leading to changes in pancreatobiliary secretions upon the detection of long-chain fatty acids in the tongue. Furthermore, it contributes to the regulation of energy and glucose homeostasis in the ventromedial hypothalamus and acts as a receptor for thrombospondins, mediating antiangiogenic effects. Acting as a coreceptor for TLR4:TLR6 heterodimer, CD36 promotes inflammation in monocytes/macrophages, responding to ligands like oxLDL or amyloid-beta. Additionally, CD36 acts as a selective sensor for microbial diacylated lipopeptides, triggering NF-kappa-B-dependent cytokine production and participating in the response to infections, including M. tuberculosis and Plasmodium falciparum. It also mediates the uptake of certain bacteria, showcasing its role as a versatile and indispensable component in various physiological processes.

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

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