



Recombinant Mouse Complement component C1q receptor (Cd93), partial (Active)

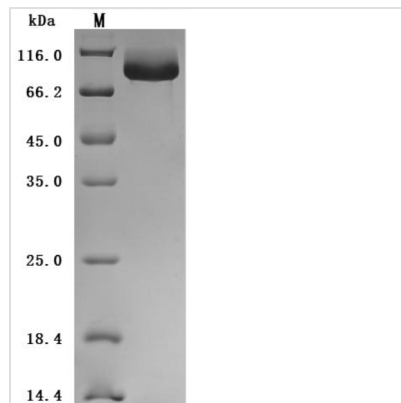
Product Code	CSB-MP004970MO
Abbreviation	Recombinant Mouse Cd93 protein, partial (Active)
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	O89103
Form	Lyophilized powder
Storage Buffer	Lyophilized from a 0.2 µm filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Mouse CD93 at 2 µg/mL can bind Mouse IGFBP7 (CSB-MP713980MO), the EC50 is 373.4-836.8 ng/mL.
Purity	Greater than 95% as determined by SDS-PAGE.
Sequence	ADSQAVVCEGTACYTAHWGKLSAAEAQHRCNENGGNLATVKSEEEARHVQQ ALTQLLKTKAPLEAKMGKFWIGLQREKGNCTYHDLPMRGFSWVGGGEDTAYS NWYKASKSSCIFKRCVSLILDLSLTPHPSHLPKWHESPCGTPEAPGNSIEGFLC KFNFKGMCRPLALGGPGRVTYTTPFQATTSSLEAVPFASVANVACGDEAKSE THYFLCNEKTPGIFHWGSSGPLCVSPKFGCSFNNGGCQQDCFEAGDGSFRC GCRPGFRLLDDLVTCASRNPSSNPCTGGGMCHSVPLSENYTCRCPSGYQL DSSQVHCVDIDECQDSPCAQDCVNTLGSFHCECWVGYQPSGPKEEACEDVD ECAAANSPCAQGCINTDGSFYCSCKEGYIVSGEDSTQCEDIDECSDARGNPC DSLCFNTDGSFRCGCPPGWELAPNGVFCSRGTVFSELPARPPQKEDNDDRK ESTMPPTTEMPSSPSGSKDVSNRAQTTGLFVQSDIPTASVPLEIEIPSEVSDVWF ELGTYLPTTSGHSPKTHEDSVSAHSDTDGQN
Research Area	Cardiovascular
Source	Mammalian cell
Target Names	Cd93
Expression Region	23-572aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	C-terminal 10xHis-tagged
Mol. Weight	60.9 kDa



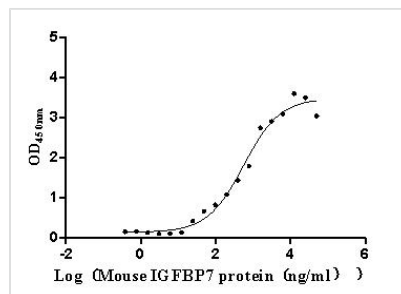
Protein Length

Partial

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Activity

Measured by its binding ability in a functional ELISA. Immobilized Mouse CD93 at 2 µg/mL can bind Mouse IGFBP7 (CSB-MP713980MO), the EC_{50} is 373.4-836.8 ng/mL.

Description

This Mouse CD93 recombinant protein was produced in mammalian cell, where the gene sequence encoding Mouse CD93 (23-572aa) was expressed with the C-terminal 10xHis tag. The purity of this CD93 protein was greater than 95% by SDS-PAGE. The activity was validated.

CD93 (C1qRP, AA4.1) is a C-type lectin-like domain (CTLD) protein. The CD93 gene is considered to be derived from the gene duplication of the group XIV member thrombomodulin (TM), so it is classified as the XIV group in transmembrane glycoprotein.

CD93 was originally thought to be a C1q receptor that enhances phagocytosis. Subsequent studies showed that in CD93-null mice, phagocytosis of C1q by macrophages is enhanced despite defective clearance of apoptotic cells in vivo, and thus CD93 is not a receptor for C1q and regulates phagocytosis through an unknown mechanism. The function of CD93 is currently mainly considered to be involved in intercellular adhesion and clearance of apoptotic cells, and is associated with various inflammatory and immune-related diseases, including asthma.

CD93 is a transmembrane receptor that is upregulated in tumor blood vessels in many cancers. Studies have demonstrated that CD93 regulates $\beta 1$ integrin signaling activation and fibronectin fibrillation during tumor angiogenesis. A recent study comparing gene expression profiling of tumors under VEGF inhibitor treatment in vivo identified CD93 as a candidate receptor downregulated in VEGF inhibition and a potential target for mediating vascular normalization. This confirms the pro-angiogenic effect of CD93 in endothelial cells.



Endotoxin	Less than 1.0 EU/ug as determined by LAL method.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
Shelf Life	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.