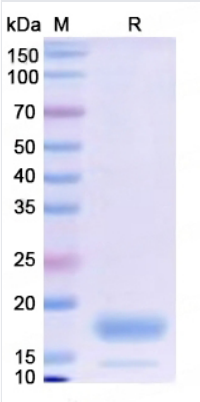
CD59 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	CD59, Recombinant Protein
Full Product Name	Recombinant Human CD59 Protein, C-His
Product Gene Name	CD59 recombinant protein
Product Synonym Names	MSK21; MAC-inhibitory protein; MEM43 antigen; MAC-IP; MIN2; MIRL; HRF20; Protectin; 1F5 antigen; MIC11; MIN3; Membrane inhibitor of reactive lysis; MACIF; 20 kDa homologous restriction factor; CD59; MIN1; CD59 glycoprotein; HRF-20; Membrane attack complex inhibition factor
Host	Mammalian
Form/Format	Liquid; 0.01M PBS, pH7.4.
Purity/Purification	>90% as determined by SDS-PAGE
Preparation and Storage	Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for one week. Store at -20 to -80 degree C for twelve months from the date of receipt.
Molecular Weight	14,177 Da
Sequence Positions	Met1-Glu101
OMIM	107271
3D Structure	ModBase 3D Structure for P13987
Species	Human
Reconstitution	Reconstitute in sterile water for a stock solution.
Product Categories/Family for CD59 recombinant protein	Recombinant Proteins
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for CD59 recombinant protein	SDS-PAGE (SDS), Western Blot (WB), ELISA (EIA), Immunogen
Related Product Information for CD59 recombinant protein	MBS1576294 is a recombinant protein targeting CD59. Also known as Recombinant Human CD59 Protein, C-His. Host: Mammalian.
Other Notes	Small volumes of CD59 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



SDS-Page of CD59 recombinant protein
SDS PAGE for recombinant Human CD59 Protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD59. It may not necessarily be applicable to this product.

NCBI GI #	42716299
NCBI GeneID	966
NCBI Accession #	NP_976076.1
UniProt Primary Accession #	P13987
UniProt Related Accession #	P13987
GenBank Nucleotide #	NM_203331.2
NCBI Official Full Name	CD59 glycoprotein preproprotein
NCBI Official Synonym Full Names	CD59 molecule, complement regulatory protein
NCBI Official Symbol	CD59
NCBI Official Synonym Symbols	1F5; EJ16; EJ30; EL32; G344; MIN1; MIN2; MIN3; MIRL; HRF20; MACIF; MEM43; MIC11; MSK21; 16.3A5; HRF-20; MAC-IP; p18-20
UniProt Protein Name	CD59 glycoprotein
UniProt Synonym Protein Names	1F5 antigen; 20 kDa homologous restriction factor; HRF-20; HRF20; MAC-inhibitory protein; MAC-IP; MEM43 antigen; Membrane attack complex inhibition factor; MACIF; Membrane inhibitor of reactive lysis; MIRL; Protectin
Protein Family	CD59 glycoprotein
UniProt Gene Name	CD59
UniProt Synonym Gene Names	MIC11; MIN1; MIN2; MIN3; MSK21; HRF-20; HRF20; MAC-IP; MACIF; MIRL
UniProt Entry Name	CD59_HUMAN
NCBI Protein Information	CD59 glycoprotein; protectin; 1F5 antigen; MEM43 antigen; Ly-6-like protein; T cell-activating protein; human leukocyte antigen MIC11; lymphocytic antigen CD59/MEM43; 20 kDa homologous restriction factor; membrane inhibitor of reactive lysis; membrane att
NCBI Summary for CD59	This gene encodes a cell surface glycoprotein that regulates complement-mediated cell lysis, and it is involved in lymphocyte signal transduction. This protein is a potent inhibitor of the complement membrane attack complex, whereby it binds complement C8 and/or C9 during the assembly of this complex, thereby inhibiting the incorporation of multiple copies of C9 into the complex, which is necessary for osmolytic pore formation. This protein also plays a role in signal transduction pathways in the activation of T cells. Mutations in this gene cause CD59 deficiency, a disease resulting in hemolytic anemia and thrombosis, and which causes cerebral infarction. Multiple alternatively spliced transcript variants, which encode the same protein, have been identified for this gene. [provided by RefSeq, Jul 2008]

UniProt Comments for CD59	CD59: Potent inhibitor of the complement membrane attack complex (MAC) action. Acts by binding to the C8 and/or C9 complements of the assembling MAC, thereby preventing incorporation of the multiple copies of C9 required for complete formation of the osmolytic pore. This inhibitor appears to be species-specific. Involved in signal transduction for T-cell activation complexed to a protein tyrosine kinase. Defects in CD59 are the cause of CD59 deficiency (CD59D). Protein type: Membrane protein, GPI anchor Chromosomal Location of Human Ortholog: 11p13 Cellular Component: anchored to external side of plasma membrane; compact myelin; extracellular space; cell surface; focal adhesion; membrane; extracellular region; plasma membrane; sarcolemma; vesicle Molecular Function: complement binding; protein binding Biological Process: cell activation; cell surface receptor linked signal transduction; regulation of complement activation; innate immune response; negative regulation of activation of membrane attack complex; positive regulation of T cell proliferation; blood coagulation; negative regulation of apoptosis Disease: Hemolytic Anemia, Cd59-mediated, With Or Without Immune-mediated Polyneuropathy
Research Articles on CD59	**1.** this study observed robust relationships between a single measurement of blood levels of GCD59 and both acute (2-hour OGTT) and chronic (HbA1c) measures of glucose handling.
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