

# Recombinant Full Length Human CD59 Protein, GST-tagged

Cat. No. CD59-3013HF Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human CD59 full-length ORF (NP_000602.1, 1 a.a. - 128 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	128 amino acids
<b>Description</b>	<p>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]</p>
<b>Molecular Mass</b>	40.6 kDa
<b>AA Sequence</b>	<p>MGIQGGSVLFGLLLVLAVFCHSGHSLQCYNCPNPTADCKTAVNCSSDFDACLITKAG  LQVYNKCWKFEHCNFNDVTTTRLRENELTYCCKKDL CNFNEQLENGGTSLSEKTVL  LLVTPFLAAAWSLHP</p>

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<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	CD59 CD59 molecule, complement regulatory protein [ Homo sapiens ]
<b>Official Symbol</b>	CD59
<b>Synonyms</b>	CD59; CD59 molecule, complement regulatory protein; CD59 antigen p18 20 (antigen identified by monoclonal antibodies 16.3A5, EJ16, EJ30, EL32 and G344), CD59 antigen, complement regulatory protein, MIC11, MIN1, MIN2, MIN3, MSK21; CD59 glycoprotein; 16.3A5; EJ16; EJ30; EL32; G344; p18 20; 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 attack complex inhibition factor; membrane attack complex (MAC) inhibition factor; surface antigen recognized by monoclonal 16.3A5; CD59 antigen p18-20 (antigen identified by monoclonal antibodies 16.3A5, EJ16, EJ30, EL32 and G344); 1F5; MIN1; MIN2; MIN3; MIRL; HRF20; MACIF; MEM43; MIC11; MSK21; HRF-20; MAC-IP; p18-20; MGC2354; FLJ38134; FLJ92039;
<b>Gene ID</b>	966
<b>mRNA Refseq</b>	NM_000611

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**Protein Refseq** [NP\\_000602](#)

**MIM** [107271](#)

**UniProt ID** [P13987](#)

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