Active Recombinant Human CD59, His-tagged

Cat. No. CD59-1600H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD59 (Leu26-Asn102) fused with a Cterminal 10His tag, was expressed in Mouse NSO Cells.
Species	Human
Source	Mammalian Cells
ProteinLength	26-102 a.a.
Description	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.
Molecular Mass	10.3 kDa
Predicted N terminal	Leu26
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS.

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Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Activity	Measured by its binding ability in a functional ELISA. When recombinant human C9 is coated at 5 g/mL (100 µ/well), the concentration of Recombinant Human CD59 that produces 50% optimal binding response is typically 0.6-3 µg/mL.
EndotoxinLevel	< 0.01 EU per 1 µg of the protein by the LAL method.
Reconstitution	Reconstitute at 100 g/mL in PBS.
Storage	12 months from date of receipt, 20 to 70 °C as supplied. Avoid repeated freezethaw cycles.
OfficialSymbol	CD59

GENE INFORMATION

Gene Name	CD59 CD59 molecule, complement regulatory protein [Homo sapiens]
Synonyms	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 anitgen 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;

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	FLJ38134; FLJ92039
Gene ID	966
mRNA Refseq	NM_000611
Protein Refseq	NP_000602
MIM	107271
UniProt ID	P13987
Chromosome Location	11p13
Pathway	Arf6 trafficking events; Complement and coagulation cascades; Hematopoietic cell lineage
Function	protein binding; complement binding
PDB rendering basedon 1cdq.	

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