

Recombinant Human CD59 Protein, C-His-tagged

Cat. No. CD59-202H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CD59 Protein with C-His tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	CD59 is a GPI-anchored membrane protein that functions as inhibitor of the complement membrane attack complex (MAC). CD59 binds to complement components C8 and C9, preventing C9 polymerization and insertion into membranes, therefore inhibiting the complement-dependent cytotoxicity (CDC). CD59 is a ubiquitously expressed cell membrane protein that protects cells from CDC. Rare cases of CD59 deficiency have been reported to cause paroxysmal nocturnal hemoglobinuria in human patients. Expression of CD59 on tumor cells and viral infected cells makes them resist antibody-dependent complement-mediated lysis. Potent inhibitors for CD59 have been actively pursued for therapeutic applications. In addition, CD59 may regulate insulin secretion by modulating exocytosis.
Molecular Mass	~9 kDa
AA Sequence	LQCYNCNPNTADCKTAVNCSSDFDACLTAKAGLQVYNKCWKFEHCNFDVTTTLRE NELYYCCKKDLCNFNEQLEN
Purity	Transferred into competent cells and the supernatant was purified by NI column affinity chromatography and the purity is > 85% (by SDS-PAGE).

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Notes	For research use only, not for use in diagnostic procedure.
Storage	Store at 4 centigrade short term. Aliquot and store at -20 centigrade long term. Avoid freeze-thaw cycles.
Concentration	≥0.5 mg/mL
Storage Buffer	PBS, 4M Urea, pH7.4
GENE INFORMATION	
Gene Name	CD59 CD59 molecule, complement regulatory protein [Homo sapiens (human)]
Official Symbol	CD59
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; M1RL; HRF20; MACIF; MEM43; MIC11; MSK21; HRF-20; MAC-IP; p18-20; MGC2354; FLJ38134; FLJ92039;
Gene ID	966
mRNA Refseq	NM_000611

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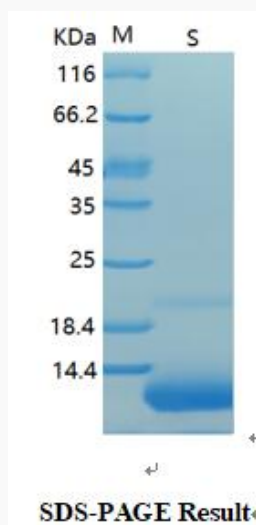
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Protein Refseq NP_000602

MIM 107271

UniProt ID P13987

SDS-PAGE



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