

Recombinant Full Length Human CD59 Protein, C-Flag-tagged

Cat. No. CD59-1539HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CD59 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	11.6 kDa
AA Sequence	MGIQGGSVLFGLLLVLAVFCHSGHSLQCYNCPNPTADCKTAVNCSSDFDACLITKAG LQVYNKVCWKFEHCNFNDVTTTRLRENELTYCCKKDL CNFNEQLENGGTSLSSEKTVL LLVTPFLAAAWSLHP TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Complement and coagulation cascades, Hematopoietic cell lineage
Full Length	Full L.

GENE INFORMATION

Gene Name	CD59 CD59 molecule (CD59 blood group) [Homo sapiens (human)]
Official Symbol	CD59
Synonyms	1F5; EJ16; EJ30; EL32; G344; MIN1; MIN2; MIN3; MIRL; HRF20; MACIF; MEM43; MIC11; MSK21; 16.3A5; HRF-20; MAC-IP; p18-20
Gene ID	966
mRNA Refseq	NM_000611.6

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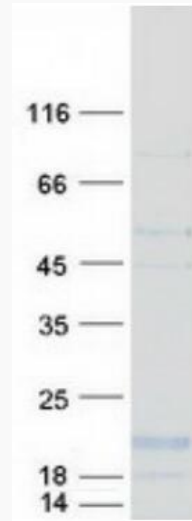
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Protein Refseq NP_000602.1

MIM 107271

UniProt ID P13987



Coomassie blue staining of purified CD59 protein.

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