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Product datasheet for PH318343

CD59 (NM_000611) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CD59 MS Standard C13 and N15-labeled recombinant protein (NP_000602)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC218343
Predicted MW:	14.2 kDa
Protein Sequence:	>RC218343 protein sequence Red=Cloning site Green=Tags(s) MGIQGGSVLFGLLLVLAVFCHSGHSLQCYNCPNPTADCKTAVNCSSDFDACLITKAGLQVYNKCWKFEHC NFNDVTTRLRENELTYYCCKKDLCNFNEQLENGGTSLSEKTVLLLVTPFLAAAWSLHP TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000602
RefSeq Size:	7635
RefSeq ORF:	384
Synonyms:	1F5; 16.3A5; EJ16; EJ30; EL32; G344; HRF-20; HRF20; MAC-IP; MACIF; MEM43; MIC11; MIN1; MIN2; MIN3; MIRL; MSK21; p18-20
Locus ID:	966
UniProt ID:	P13987, Q6FHM9

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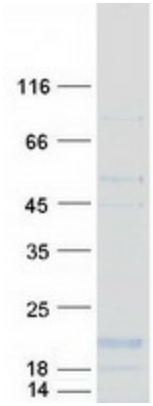
Cytogenetics: 11p13

Summary: 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]

Protein Families: Druggable Genome

Protein Pathways: Complement and coagulation cascades, Hematopoietic cell lineage

Product images:



Coomassie blue staining of purified CD59 protein (Cat# [TP318343]). The protein was produced from HEK293T cells transfected with CD59 cDNA clone (Cat# [RC218343]) using MegaTran 2.0 (Cat# [TT210002]).