

CD59 Protein, Human (77a.a, HEK293, hFc)

Cat. No.:	HY-P700683
Synonyms:	CD59; 1F5; HRF-20; HRF20; MAC-IP; MACIP; MEM43; MACIF; MIRL; G344; MIC11; MIN1; MIN2; MIN3; MIRL; MSK21
Species:	Human
Source:	HEK293
Accession:	P13987-1 (L26-N102)
Gene ID:	966
Molecular Weight:	45-50 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μ m filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	CD59 protein is a potent inhibitor of the complement membrane attack complex (MAC) action. It functions by binding to the assembling MAC's C8 and/or C9 complements, thereby impeding the incorporation of multiple copies of C9 necessary for the formation of the osmolytic pore. Notably, this inhibitor exhibits species-specificity. Additionally, CD59 is involved in T-cell activation complexed with a protein tyrosine kinase for signal transduction. It is worth noting that while the soluble form of CD59 from urine retains its specific complement binding activity, it demonstrates a significantly reduced ability to inhibit MAC assembly on cell membranes.
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Caution: Product has not been fully validated for medical applications. For research use only.

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