

CD59 Protein, Human (P.pastoris, His)

Cat. No.:	HY-P71724
Synonyms:	1F5 ; 1F5 antigen; Human leukocyte antigen MIC11; Ly 6 like protein; MAC-IP; MACIF; MACIP; MEM43; MEM43 antigen
Species:	Human
Source:	P. pastoris
Accession:	P13987 (L26-N102)
Gene ID:	966
Molecular Weight:	Approximately 11.0 kDa

PROPERTIES

AA Sequence	L Q C Y N C P N P T A D C K T A V N C S S D F D A C L I T K A G L Q V Y N K C W K F E H C N F N D V T T R L R E N E L T Y Y C C K K D L C N F N E Q L E N
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/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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