

## CD59 Protein, Cynomolgus (HEK293, His)

<b>Cat. No.:</b>	HY-P76242
<b>Synonyms:</b>	CD59 glycoprotein; HRF-20; MAC-IP; MACIF; MIRL; CD59; MIC11; MIN1; MSK21
<b>Species:</b>	Cynomolgus
<b>Source:</b>	HEK293
<b>Accession:</b>	G7PQF7 (L26-E101)
<b>Gene ID:</b>	101867071
<b>Molecular Weight:</b>	Approximately 18&14 kDa.

### PROPERTIES

<b>AA Sequence</b>	L Q C Y N C P N P T      T D C K T A I N C S      S G F D T C L I A R      A G L Q V Y N Q C W K F A N C N Y N D I      S T L L K E S E L R      Y F C C K K D L C N      F N E Q L E
<b>Biological Activity</b>	Measured by its binding ability in a functional ELISA. When Recombinant Human C9 is present at 5 µg/mL, can bind Recombinant Cynomolgus CD59. The ED <sub>50</sub> for this effect is 1.82 µg/mL.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of PBS, PH 7.4.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	CD59 Protein emerges as a potent inhibitor of the complement membrane attack complex (MAC) action, exerting its regulatory influence at or after the C5b-8 stage of MAC assembly. This key role positions CD59 as a crucial modulator in the complement system, preventing excessive activation and the subsequent membrane damage associated with uncontrolled MAC formation. By targeting specific stages of the MAC assembly process, CD59 plays a pivotal role in maintaining the delicate balance of complement activation, highlighting its significance in the immune response and safeguarding cellular integrity from complement-mediated damage.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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