

CD59 Protein, Rat (HEK293, His)

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| Cat. No.: | HY-P75390 |
| Synonyms: | CD59 glycoprotein; HRF-20; MAC-IP; MACIF; MIRL; CD59; MIC11; MIN1; MSK21 |
| Species: | Rat |
| Source: | HEK293 |
| Accession: | P27274 (L23-N100) |
| Gene ID: | 25407 |
| Molecular Weight: | Approximately 14-16 kDa |

PROPERTIES

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| AA Sequence | L R C Y N C L D P V S S C K T N S T C S P N L D A C L V A V S G K Q V Y Q Q C W R F S D C N A K F I L S R L E I A N V Q Y R C C Q A D L C N K S F E D K P N |
| Biological Activity | Measured by its binding ability in a functional ELISA. When Recombinant Human C9 is present at 5 µg/mL, can bind Recombinant Rat CD59. The ED ₅₀ for this effect is 2.01 µg/mL. |
| Appearance | Lyophilized powder. |
| Formulation | Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. |
| 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. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose). |
| 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

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| Background | 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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