

CD59 Protein, Rat (HEK293, Fc)

Cat. No.:	HY-P75391
Synonyms:	CD59 glycoprotein; HRF-20; MAC-IP; MACIF; MIRL; CD59; MIC11; MIN1; MSK21
Species:	Rat
Source:	HEK293
Accession:	P27274 (M1-N100)
Gene ID:	25407
Molecular Weight:	Approximately 40&43 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
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 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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