

CD59a Protein, Mouse (HEK293, Fc)

Cat. No.:	HY-P76809
Synonyms:	CD59A glycoprotein; MAC-IP; MACIF; Protectin; CD59
Species:	Mouse
Source:	HEK293
Accession:	O55186/NP_001104530.1 (L24-K95)
Gene ID:	12509
Molecular Weight:	Approximately 42 kDa

PROPERTIES

AA Sequence	L T C Y H C F Q P V V S S C N M N S T C S P D Q D S C L Y A V A G M Q V Y Q R C W K Q S D C H G E I I M D Q L E E T K L K F R C C Q F N L C N K
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

Background	CD59a Protein emerges as a potent inhibitor of the complement membrane attack complex (MAC) action, functioning by binding to the C8 and/or C9 complements during the assembling MAC. Through this interaction, CD59a prevents the incorporation of multiple copies of C9 essential for the complete formation of the osmolytic pore. This regulatory role underscores the crucial contribution of CD59a in modulating the complement system, specifically at the level of MAC assembly, and serves as a pivotal safeguard mechanism against the uncontrolled formation of the osmolytic pore, ultimately protecting cells from potential 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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