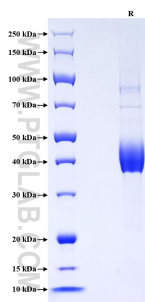


Catalog Number: Eg3220

Basic Information	Species: Rat	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	Purity: >90 %, SDS-PAGE Endotoxin Level: <0.1 EU/ µg protein, LAL method Source: HEK293-derived Rat CD59 protein Asn27-Asn101 (Accession# P27274) with a rabbit IgG Fc tag at the C-terminus. GeneID: 25407 Accession: P27274 Predicted Molecular Mass: 34.7 kDa SDS-PAGE: 35-45 kDa, reducing (R) conditions Formulation: Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.		
Biological Activity	Not tested		
Storage and Shipping	Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. • Until expiry date, -20°C to -80°C as lyophilized proteins. • 3 months, -20°C to -80°C under sterile conditions after reconstitution. Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	CD59 is a glycosylphosphatidylinositol (GPI)-anchored cellular receptor that acts as a gatekeeper of protein pore formation. As an immune regulator, CD59 prevents pore formation by the complement membrane attack complex (MAC). It is the only membrane-bound inhibitor of the terminal pathway, abrogating membrane rupture by MAC and further polymerization of the pore. CD59 is widely distributed in normal tissues and cells, such as blood cells, heart, liver, spleen, kidney, endothelia, various epithelial cells, and skeletal muscles.		
References	1. Kimberley FC. et al. (2007) Mol Immunol. 44(1-3):73-81. 2. Iwasa K. et al. (2022) Neurol Neuroimmunol Neuroinflamm. 10(1):e200057. 3. Voisin TB. et al. (2023) Toxins (Basel). 15(7):430. 4. Couves EC. et al. (2023) Nat Commun. 14(1):890.		
Synonyms	CD59 glycoprotein, MACIF, MAC-inhibitory protein, MAC-IP, Membrane attack complex inhibition factor		

Selected Validation Data



Purity of Recombinant Rat CD59 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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