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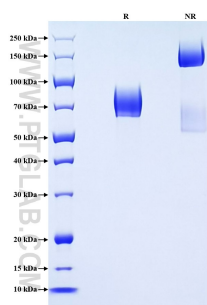
# Recombinant Human CD55 protein (rFc Tag)



Catalog Number: Eg4246

Basic Information	Species: Human	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
Technical Specifications	<p><b>Purity:</b> &gt;90 %, SDS-PAGE</p> <p><b>Endotoxin Level:</b> &lt;0.1 EU/ µg protein, LAL method</p> <p><b>Source:</b> HEK293-derived Human CD55 protein Asp35-Ser353 (Accession# P08174) with a rabbit IgG Fc tag at the C-terminus.</p> <p><b>GeneID:</b> 1604</p> <p><b>Accession:</b> P08174</p> <p><b>Predicted Molecular Mass:</b> 61.2 kDa</p> <p><b>SDS-PAGE:</b> 65-80 kDa, reducing (R) conditions</p> <p><b>Formulation:</b> Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.</p>		
Biological Activity	Not tested		
Storage and Shipping	<p><b>Storage:</b> It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"><li>• Until expiry date, -20°C to -80°C as lyophilized proteins.</li><li>• 3 months, -20°C to -80°C under sterile conditions after reconstitution.</li></ul> <p><b>Shipping:</b> The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.</p>		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	<p>CD55, also known as decay-accelerating factor (DAF), is a membrane lipid microstructural domain-associated GPI-anchored protein with a molecular weight ranging from 50 to 100 kDa depending on the cell type. CD55 protects cells from complement-mediated attack by accelerating the decay of C3 and C5, and its absence has been linked to a number of pathologies resulting from over-activation of the complement system. CD55 can signal within cells to promote malignant transformation, cell survival and inhibit apoptosis. CD55 can signal intracellularly to promote malignant transformation, cancer progression, cell survival, angiogenesis, and inhibition of apoptosis. CD55 is enriched in cancer stem cell (CSC) ecosystems in a variety of tumors including breast, ovarian, and cervical cancers and can be induced by chemotherapy and hypoxic environments. (PMID: 36216147)</p>		
References	<ol style="list-style-type: none"><li>1. Bharti R, et al. Cancer Lett. 2022;551:215935.</li><li>2. González-Del-Barrio L, et al. FASEB J. 2023;37(11):e23256.</li><li>3. Kurolap A, et al. Hum Genet. 2023;142(5):683-690.</li></ol>		
Synonyms	Complement decay-accelerating factor, CR, CROM, DAF, TC		

## Selected Validation Data



Purity of Recombinant Human CD55 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

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

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