Human CD55 Protein

Cat. No. CD5-HM105

Description

Source	Recombinant Human CD55 Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Asp35-Ser353.
Accession	P08174-1
Molecular Weight	The protein has a predicted MW of 35.8 kDa. Due to glycosylation, the protein migrates to 70-75 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 95% as determined by HPLC

Formulation and Storage

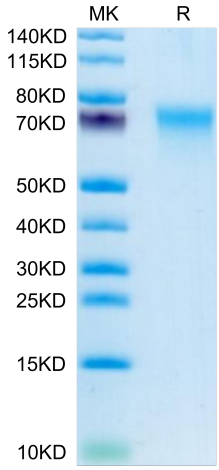
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-20 to -80°C for 3-6 months in unopened state after reconstitution.2-8°C for 2-7 days after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Decay Accelerating Factor (or CD55) is a major regulator of the alternative and classical pathways of complement activation and is expressed on all serum-exposed cells. It is commonly hijacked by invading pathogens, including many enteroviruses and uropathogenic Escherichia coli, to promote cellular attachment prior to infection.

Assay Data

Tris-Bis PAGE



Human CD55 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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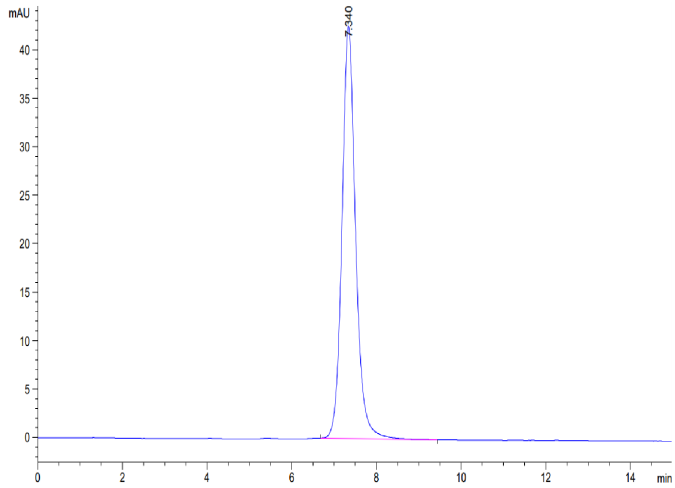
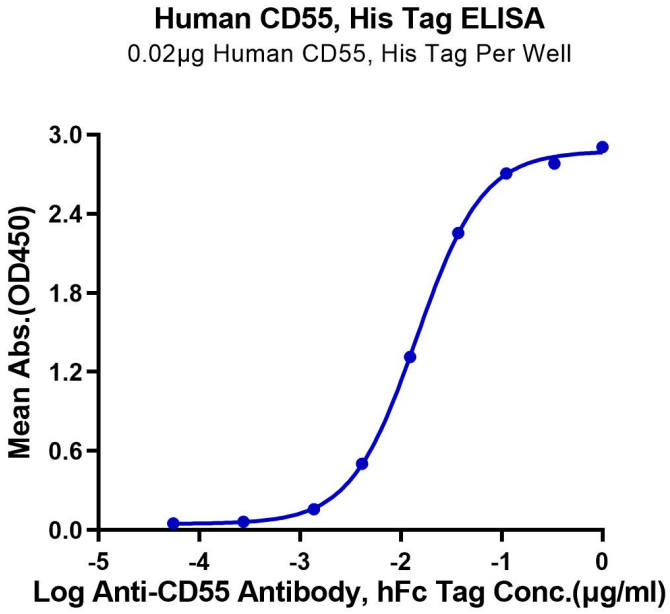
Assay Data



The purity of Human CD55 is greater than 95% as determined by SEC-HPLC.

ELISA Data



Immobilized Human CD55, His Tag at 0.2μg/ml (100μl/well) on the plate. Dose response curve for Anti-CD55 Antibody, hFc Tag with the EC50 of 14.3ng/ml determined by ELISA.