Human CD5 Protein

Cat. No. CD5-HM501

Description

Source	Recombinant Human CD5 Protein is expressed from Expi293 with hFc tag and Avi tag at the C-terminal.
	It contains Arg25-Asn371.
Accession	P06127
Molecular Weight	The protein has a predicted MW of 67.1 kDa. Due to glycosylation, the protein migrates to 75-82 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

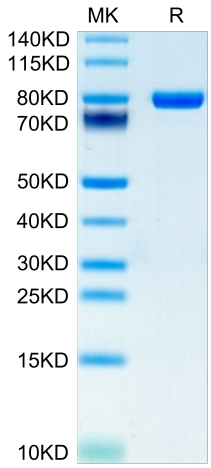
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 μg/ml is recommended (usually we use 1mg/ml solution for lyophilization). 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 avoid freeze-thaw cycles.

Background

CD5: a type I transmembrane protein found on T cells, thymocytes, and some B cells that is a ligand for CD72 and is involved in cellular activation or adhesion; expressed in B-cell chronic lymphocytic leukemia and T-cell lymphoma.

Assay Data

Tris-Bis PAGE



Human CD5 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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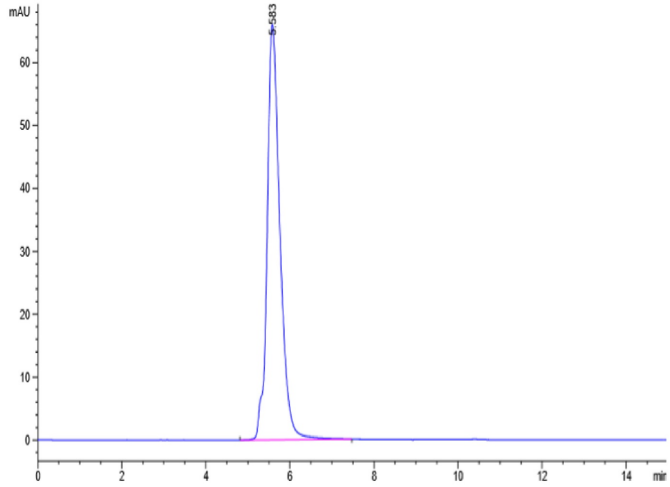
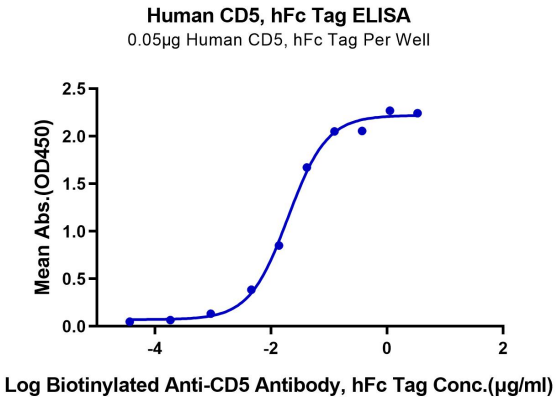
Assay Data



The purity of Human CD5 is greater than 95% as determined by SEC-HPLC.

ELISA Data



Immobilized Human CD5 at 0.5μg/ml (100μl/Well) on the plate. Dose response curve for Biotinylated Anti-CD5 Antibody, hFc Tag with the EC50 19.6ng/ml determined by ELISA.