

# Biotinylated Human CD5 Protein

Cat. No. CD5-HM401B

## Description

<b>Source</b>	Recombinant Biotinylated Human CD5 Protein is expressed from HEK293 with His tag and Avi tag at the C-terminus. It contains Arg25-Pro372.
<b>Accession</b>	P06127
<b>Molecular Weight</b>	The protein has a predicted MW of 41.54 kDa. Due to glycosylation, the protein migrates to 50-60 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1 EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

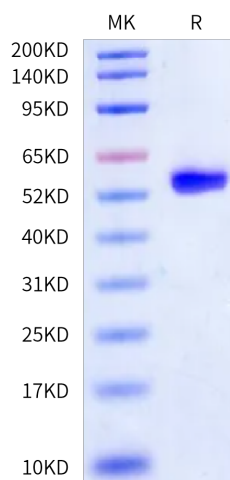
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize 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.

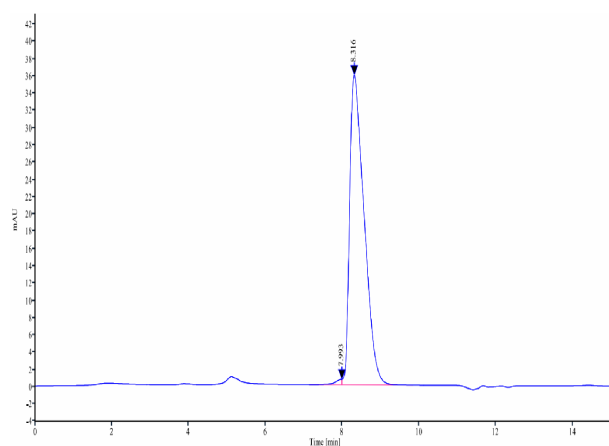
## Assay Data

### Bis-Tris PAGE



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

### SEC-HPLC



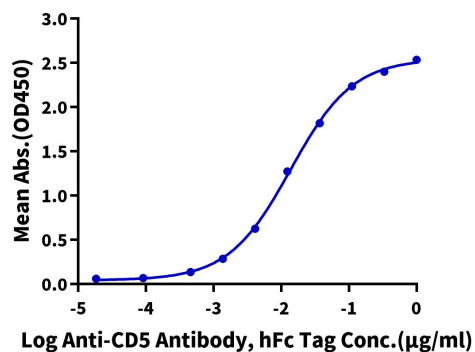
The purity of Biotinylated Human CD5 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Biotinylated Human CD5, His Avi Tag ELISA**

0.05µg Biotinylated Human CD5, His Avi Tag Per Well



Immobilized Biotinylated Human CD5, His Avi Tag at 0.5µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Anti-CD5 Antibody, hFc Tag with the EC50 of 13.8ng/ml determined by ELISA.