

# Human CD5 Protein, Ultra Low Endotoxin

Cat. No. CD5-HM101-UL

## Description

<b>Source</b>	Recombinant Human CD5 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Arg25-Asn371.
<b>Accession</b>	P06127
<b>Molecular Weight</b>	The protein has a predicted MW of 39.63 kDa. Due to glycosylation, the protein migrates to 50-60 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 0.01 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

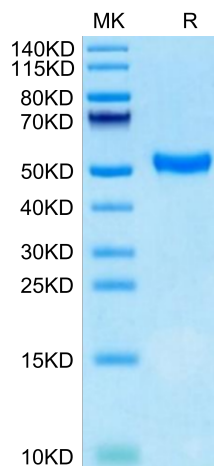
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
<b>Storage</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.

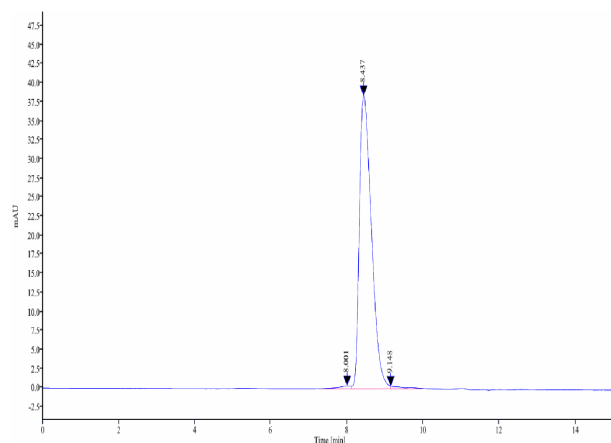
## Assay Data

### Bis-Tris PAGE



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

### SEC-HPLC



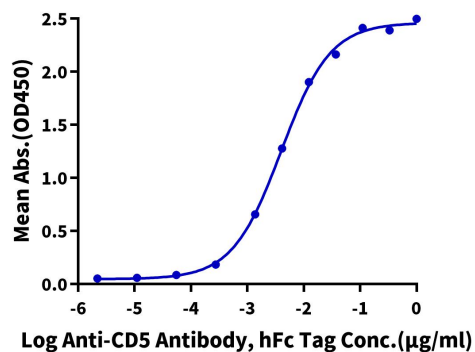
The purity of Human CD5 is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Human CD5, His Tag ELISA**

0.05µg Human CD5, His Tag Per Well



Immobilized Human CD5, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-CD5 Antibody, hFc Tag with the EC50 of 4.0ng/ml determined by ELISA.