

Recombinant Human CD5 Protein

Catalog No.: RP00593

Sequence Information

Species **Gene ID**

Human 921

Swiss Prot **Tags**

P06127 C-His

Synonyms

CD5 molecule; CD5; LEU1; T1; CD5 antigen

Product Information

Source **Purification**

HEK293 cells ≥ 95 % as determined by SDS-PAGE; ≥ 95 % as determined by HPLC.

Calculated MW **Observed MW**

39.38 kDa 50–60 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1–0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-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.

Basic Information

Description

Recombinant Human CD5 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Arg25–Asn371) of Human CD5 (Accession #P06127) fused with a C-His tag at the C-terminus.

Activity**Shipping**

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at –20°C

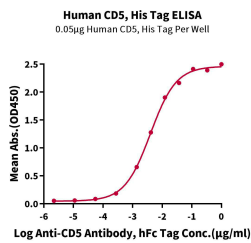
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

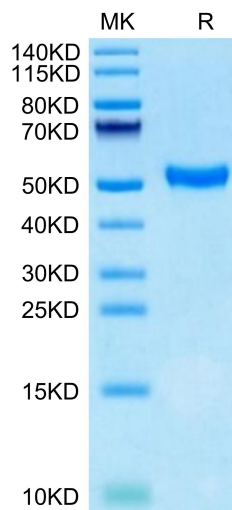
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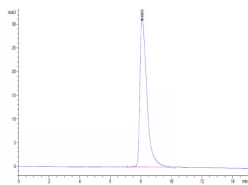
Validation Data



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



Recombinant Human CD5 Protein was determined by Tris-Bis PAGE under reducing conditions.



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