

# Recombinant Human CD7 Protein

Catalog No.: RP02864 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	924	P09564

### Tags

C-hFc

### Synonyms

CD7 molecule; LEU-9; Tp40; TP41; GP40

## Product Information

Source	Purification
HEK293 cells	> 95% as determined by HPLC

### Endotoxin

<1EU/μg

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

### Reconstitution

Centrifuge the tube 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 freeze-thaw cycles.

## Contact

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## Background

CD7, also known as Leu-9, is an approximately 40 kDa glycosylated and palmitoylated transmembrane protein in the immunoglobulin superfamily. CD7 is expressed on T cells, NK cells, myeloid progenitor cells, and CD19 B progenitor cells. Among CD8 T cells, the CD7-bright population preferentially contains naive and memory cells, while more weak expressors are primarily effector cells.

## Basic Information

### Description

Recombinant Human CD7 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala26-Pro180) of human CD7 (Accession #NP\_006128.1) fused with a hFc tag at the C-terminus.

### Bio-Activity

Immobilized Human CD7, hFc Tag at 0.5 μg/ml (100 μl/well) on the plate. Dose response curve for Biotinylated Anti-CD7 Antibody, hFc Tag with the EC<sub>50</sub> of 27.7 ng/ml determined by ELISA.

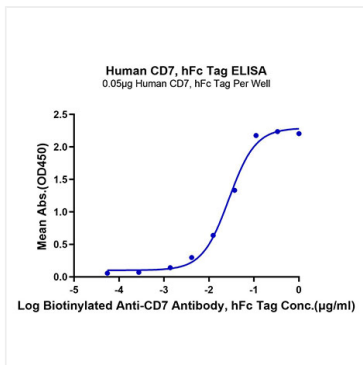
### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80°C up to 1 year from the date of receipt.

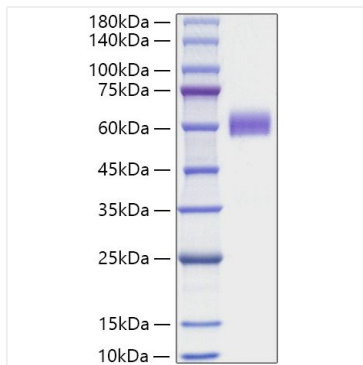
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

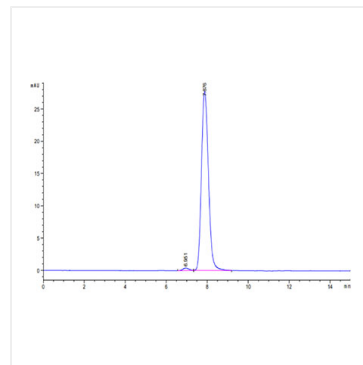
## Validation Data



Immobilized Human CD7, hFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Anti-CD7 Antibody, hFc Tag with the EC<sub>50</sub> of 27.7ng/ml determined by ELISA.



Recombinant Human CD7 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 50-65 kDa.



The purity of Human CD7 is greater than 95% as determined by SEC-HPLC.