

# Recombinant Human CD7 Protein

Catalog No.: RP01786 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	924	P09564

### Tags

C-His

### Synonyms

GP40; TP41; Tp40; LEU-9;CD7

## Product Information

Source	Purification
HEK293 cells	

Calculated MW	Observed MW
17.27 kDa	25-35 kDa

**Endotoxin**  
<0.001 EU/μg

### Formulation

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

### 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.

## 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 6×His tag at the C-terminus.

### Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human CD7 Protein at 2 μg/mL (100 μL/well) can bind human SECTM1 (Catalog:RP00278) with a linear range of 0.098-1.3 ng/mL.

### Storage

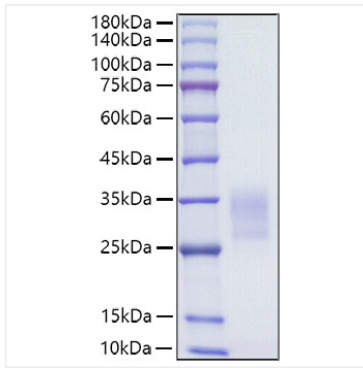
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

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

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Recombinant Human CD7 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 25-35 kDa.