

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

Calculated MW	Observed MW
42.39 kDa	55-65 kDa

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 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 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 EC₅₀ of 27.7 ng/ml determined by ELISA.

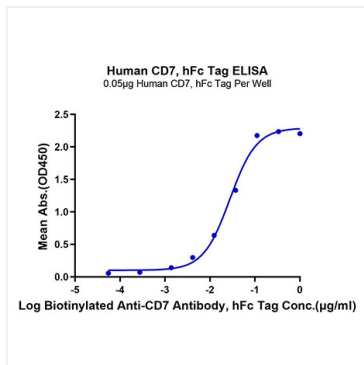
Storage

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

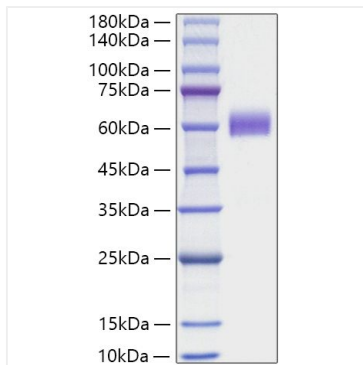
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

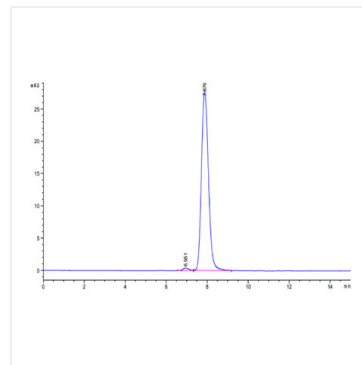
Validation Data



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 EC₅₀ 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.