

Catalog No.: RP02864 **Recombinant**

Species	Gene ID	Swiss Prot
Human	924	P09564

C-hFc

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

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

42.39 kDa 55-65 kDa

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

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

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.

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 na ν ve and memory cells, while more weak expressors are primarily effector cells.

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.

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.

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

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.

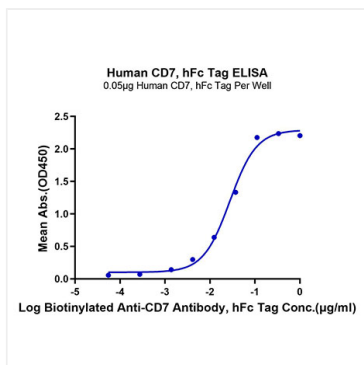
For your safety and health, please wear a lab coat and disposable gloves for handling.

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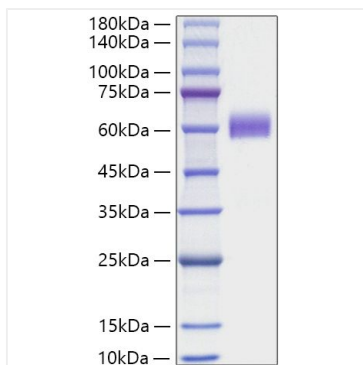
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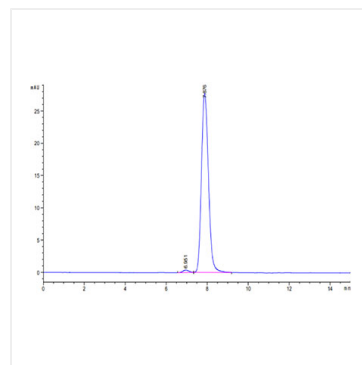
Validation Data



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 under reducing conditions with Coomassie Blue.



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