

Biotinylated Recombinant Human CD7 Protein

Catalog No.: RP00588B Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 924 P09564

Tags C-His&Avi

Synonyms

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

Product Information

Source Purification

HEK293 cells \geq 95 % as determined by SDS-PAGE; \geq 95 % as determined by

HPLC.

Calculated MW Observed MW

19.3 kDa 34-48 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 stablizer (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 na?ve and memory cells, while more weak expressors are primarily effector cells.

Basic Information

Description

Biotinylated Recombinant Human CD7 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala26-Pro180) of Human CD7 (Accession #P09564) fused with a C-His&Avi tag at the C-terminus.

Bio-Activity

Shipping

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

Storage

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

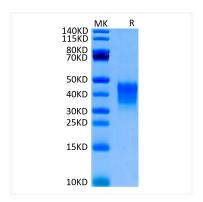
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

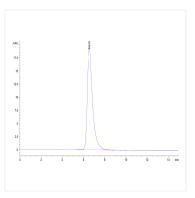
Operational Notes

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

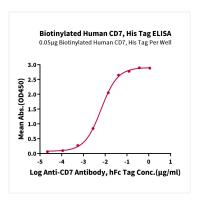
Validation Data



Biotinylated Recombinant Human CD7 Protein was determined by Tris-Bis PAGE under reducing conditions.



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



Immobilized Biotinylated Human CD7, His Tag at 0.5 μ g/mL (100 μ L/well) on the streptavidin precoated plate (5 μ g/mL). Dose response curve for Anti-CD7 Antibody, hFc Tag with the EC₅₀ of 6.4ng/mL determined by FLISA