

# Recombinant Human CD7 protein (rFc Tag)(HPLC verified)

Catalog Number: Eg3034

## Basic Information

**Species:**  
Human**Purity:**  
>90 %, SDS-PAGE<br> >90 %, SEC-HPLC**Tag:**  
rFc Tag

## Technical Specifications

**Purity:**  
>90 %, SDS-PAGE<br> >90 %, SEC-HPLC**Endotoxin Level:**  
<0.1 EU/ µg protein, LAL method**Source:**  
HEK293-derived Human CD7 protein Ala26-Pro180 (Accession# P09564) with a rabbit IgG Fc tag at the C-terminus.**GeneID:**  
924**Accession:**  
P09564**Predicted Molecular Mass:**  
42.5 kDa**SDS-PAGE:**  
47-60 kDa, reducing (R) condition**Formulation:**  
Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**

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

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

CD7, or T-cell antigen 7 or GP40, is a transmembrane glycoprotein and a member of the immunoglobulin supergene family. CD7 is predominantly expressed on thymocytes and mature T cells, as well as natural killer (NK) cells, and it is one of the earliest antigens to appear on cells of the T-lymphocyte lineage. CD7 plays a significant role in T-cell and T-cell/B-cell interactions during early lymphoid development. It is involved in the regulation of cell signaling and biology, including T-cell activation, proliferation, and the expression of interleukin-2 receptor alpha (IL-2R $\alpha$ ). CD7 is not only a marker for T-cells but also has functional implications in immune cell interactions and adhesion. It can provide co-stimulatory signals and is associated with CD3 and CD45, participating in T-cell activation.

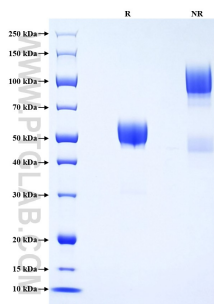
## References

1. G D Sempowski. et al. (1999). Crit Rev Immunol. 19(4):331-348.
2. Stillwell R. et al.(2001). Immunol Res. 24(1): 31-52.
3. Wei SD. et al. (2005). Cell Death Dis. 9(3): 293.

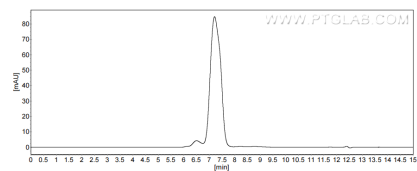
## Synonyms

CD7 molecule, GP40, LEU-9, T cell antigen CD7, T cell leukemia antigen

## Selected Validation Data



Purity of Recombinant Human CD7 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



The purity of Human CD7 was greater than 90% as determined by SEC-HPLC.

For technical support and original validation data for this product please contact

T: 027-87531629

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://ptgcn.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.