

# Recombinant Human CD83 protein (rFc Tag) (HPLC verified)

Catalog Number: Eg2033

## Basic Information

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

## Technical Specifications

**Purity:**  
>90 %, SDS-PAGE  
>90 %, SEC-HPLC**Endotoxin Level:**  
<0.1 EU/ µg protein, LAL method**Source:**  
HEK293-derived Human CD83 protein Thr20-Ala143 (Accession# Q01151) with a rabbit IgG Fc tag at the C-terminus.**GeneID:**  
9308**Accession:**  
Q01151**Predicted Molecular Mass:**  
40.3 kDa**SDS-PAGE:**  
42-60 kDa, reducing (R) conditions**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

CD83 is a member of the immunoglobulin (Ig) superfamily, consisting of an extracellular V-type Ig-like domain, a transmembrane domain, and a cytoplasmic tail. CD83 is one of the most prominent markers for fully matured dendritic cells (DCs). It is also found on the surface of other activated hematopoietic cells, including lymphocytes, monocytes, macrophages, and neutrophils. CD83 regulates the maturation, activation, and homeostasis of numerous immune cells. CD83 can also be expressed as a soluble form. Soluble CD83 can bind to DCs and inhibit their maturation.

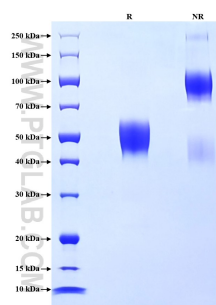
## References

1. Alexander T Prechtel, Alexander Steinkasserer. (2007) Arch Dermatol Res. May;299(2):59-69.
2. Ziduo Li, Xincheng Ju, et al. (2019) Front Immunol. Jun 7:10:1312.
3. Linda Grosche, Ilka Knippertz, et al. (2020) Front Immunol. Apr 17:11:721.
4. Matthias Lechmann, Elisabeth Zinser, et al. (2002) Int Arch Allergy Immunol. Oct;129(2):113-8.

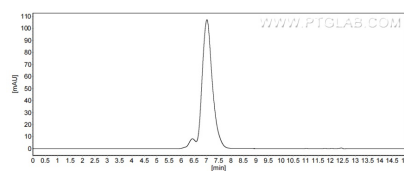
## Synonyms

B cell activation protein, B-cell activation protein, BL11, CD83 antigen, CD83 molecule

## Selected Validation Data



Purity of Recombinant Human CD83 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 CD83 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)

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