

For Research Use Only

Recombinant Human CD83 protein (rFc Tag)



Catalog Number: Eg2033

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ μ g 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:

43.3 kDa

SDS-PAGE:

42-60 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 μ m 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.

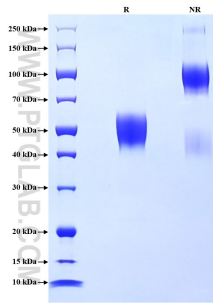
References

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

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

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.

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

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