

Recombinant Human CD247 protein (rFc Tag)(HPLC verified)

Catalog Number: Eg5018

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 CD247 protein Arg52-Arg164 (Accession# P20963-1) with a rabbit IgG Fc tag at the C-terminus**GeneID:**
919**Accession:**
P20963-1**Predicted Molecular Mass:**
39.1 kDa**SDS-PAGE:**
38-50 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

CD247, also known as CD3Z (T-cell surface glycoprotein CD3 zeta chain), belongs to the CD3Z/FCER1G family. CD3 is a complex of proteins that directly associates with the T cell receptor (TCR). The TCR/CD3 complex of T-lymphocytes consists of either a TCR alpha/beta or TCR gamma/delta heterodimer coexpressed at the cell surface with the invariant subunits of CD3 labeled gamma, delta, epsilon, zeta, and eta. The TCR recognizes antigens bound to major histocompatibility complex (MHC) molecules. TCR-mediated peptide-MHC recognition is transmitted to the CD3 complex, leading to the intracellular signal transduction.

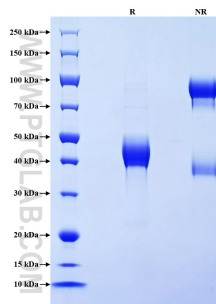
References

1. Rudemiller N, et al. (2014). Hypertension. 63(3):559-64.
2. Dexiu C, et al. (2022). Scand J Immunol. 96(1):e13170.
3. Ye W, et al. (2019). Medicine (Baltimore). 98(51):e18407.

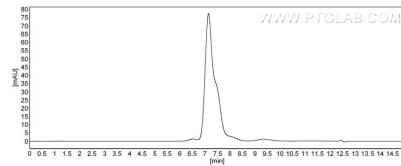
Synonyms

CD247 molecule, CD3 ZETA, CD3H, CD3Q, CD3Z

Selected Validation Data



Purity of Recombinant Human CD247 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 CD247 was greater than 90% as determined by SEC-HPLC.

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

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