

For Research Use Only

Recombinant Human CD21 protein (rFc Tag)



Catalog Number: Eg2980

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 CD21 protein Ile21-Arg971 (Accession# P20023-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

1380

Accession:

P20023-1

Predicted Molecular Mass:

129.8 kDa

SDS-PAGE:

130-180 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

CD21, also known as complement receptor 2 (CR2), is a key membrane protein expressed on the surface of B lymphocytes and follicular dendritic cells. Its core function is to serve as a bridge linking innate and adaptive immunity: on the one hand, as a receptor for complement C3 fragments, it enhances antigen recognition and activation of B cells; on the other hand, it is also the primary receptor for EB virus invasion of B cells and is closely associated with various lymphoproliferative disorders and tumors. Due to its crucial role in immune regulation and pathological processes, CD21 has emerged as a highly regarded potential therapeutic target in the development of drugs for B-cell lymphoma, autoimmune diseases, and anti-EBV infection, holding significant research value particularly in the fields of antibody-based therapeutics and cell therapy.

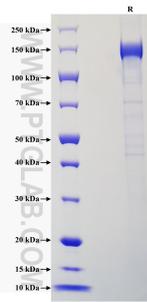
References

1. Maciocia, Nicola et al. Science translational medicine vol. 17,794 (2025): eadr1476. 2. Zhu, Danni Y et al. Science i

Synonyms

C3DR, Complement C3d receptor, Complement receptor type 2, CR2, EBV receptor

Selected Validation Data



Purity of Recombinant Human CD21 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.

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

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