

CD21 Protein, Human, Recombinant (His)

General Information

Synonyms:	CD21;CR2;C3DRSLEB9;EBV receptor;CVID7;SLEB9;C3DR
Protein Construction:	Ile21-Arg971
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P20023-1
Molecular Weight:	105.3 kDa (predicted). Due to glycosylation, the protein migrates to 110-130 kDa based on Bis-Tris PAGE result.

QC Testing

Biological Activity:	Immobilized Human CD21, His Tag at 0.5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-CD21 Antibody, hFc Tag with the EC50 of 7.9ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

CD21 mRNA expression, an EBV-entry receptor, was transiently detected in NK cells after exosome treatment, and levels decreased after further culture. CD21 protein expression was also transiently transferred to NK cells after co-culture with an EBV-positive Burkitt lymphoma cell line (Raji) via trogocytosis. However, EBV did not infect NK cells through CD21-mediated trogocytosis.

Reference

Lee JH, et al. CD21-independent Epstein-Barr virus entry into NK cells. Cell Immunol. 2018 May;327:21-25. doi: 10.1016/j.cellimm.2018.01.01Epub 2018 Jan 17. PMID: 29499908.

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