

CD84 Protein, Human, Recombinant (His & Avi)

General Information

Synonyms:	CD84;DKFZp781E2378;Hly9-beta;Hly9-β;CD84 molecule;SLAMF5;LY9B
Protein Construction:	Lys22-Gly225
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q9UIB8-1
Molecular Weight:	25.4 kDa (predicted). Due to glycosylation, the protein migrates to 40-55 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
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

Chronic lymphocytic leukemia (CLL) is characterized by the accumulation of CD5 B lymphocytes in peripheral blood, lymphoid organs and bone marrow. The main feature of the disease is accumulation of the malignant cells due to decreased apoptosis. CD84 belongs to the signaling lymphocyte activating molecule family of immunoreceptors, and has an unknown function in CLL cells.

Reference

Binsky-Ehrenreich I, et al. CD84 is a survival receptor for CLL cells. *Oncogene*. 2014 Feb 20;33(8):1006-16. doi: 10.1038/onc.2013.3Epub 2013 Feb 25. PMID: 23435417; PMCID: PMC3796123.

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