Biotinylated Human CD84 / SLAMF5 Protein, His,Avitag™

Catalog # CD4-H82E5

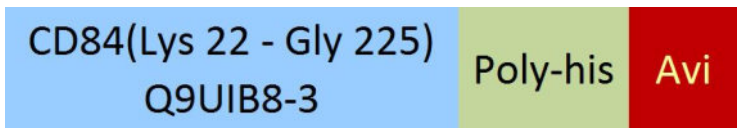
Synonym

CD84,SLAMF5,LY9B,SLAMF5

Source

Biotinylated Human CD84, His,Avitag(CD4-H82E5) is expressed from human 293 cells (HEK293). It contains AA Lys 22 - Gly 225 (Accession # Q9UIB8-3). Predicted N-terminus: Lys 22

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 26.5 kDa. The protein migrates as 40-50 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

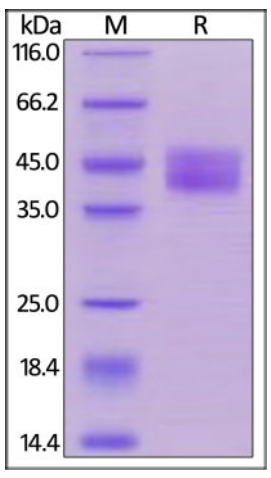
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Biotinylated Human CD84, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

Background

Leukocyte differentiation antigen CD84 is also known as SLAM family member 5 (SLAMF5), which belongs to immunoglobulin (Ig) superfamily. CD84 / SLAMF5 contains one Ig-like C2-type (immunoglobulin-like) domain. CD84 plays a role as adhesion receptor functioning by homophilic interactions and by clustering. CD84 / SLAMF5 increases proliferative responses of activated T-cells and SH2D1A/SAP does not seen be required for this process. Homophilic interactions enhance interferon gamma/IFNG secretion in lymphocytes and induce platelet stimulation via a SH2D1A/SAP-dependent pathway.

Clinical and Translational Updates