Biotinylated Human B7-H3 (4Ig) / B7-H3b Protein, Fc,Avitag™ (MALS verified)

Catalog # B7B-H82F5

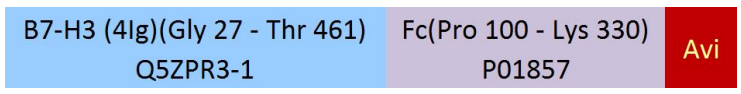
Synonym

4Ig-B7-H3,B7-H3,CD276,PSEC0249,UNQ309,PRO352,B7 homolog 3

Source

Biotinylated Human B7-H3 (4Ig), Fc,Avitag(B7B-H82F5) is expressed from human 293 cells (HEK293). It contains AA Gly 27 - Thr 461 (Accession # Q5ZPR3-1).
Predicted N-terminus: Gly 27

Molecular Characterization



This protein carries a human IgG1 Fc tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 74.9 kDa. The protein migrates as 90-115 kDa when calibrated against Star Ribbon Pre-stained Protein Marker 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.

Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 μm filtered solution in
Tris with Glycine, Arginine and NaCl, pH7.5 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

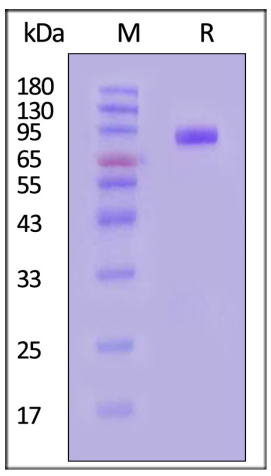
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

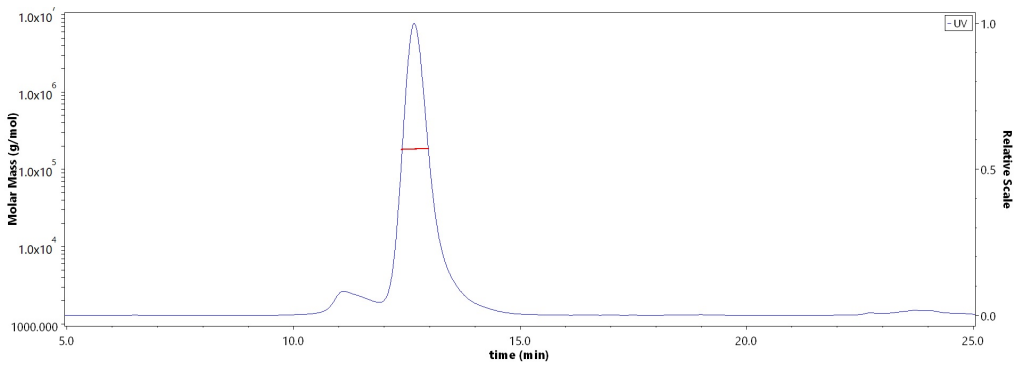
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Biotinylated Human B7-H3 (4Ig), Fc,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With Star Ribbon Pre-stained Protein Marker).

SEC-MALS

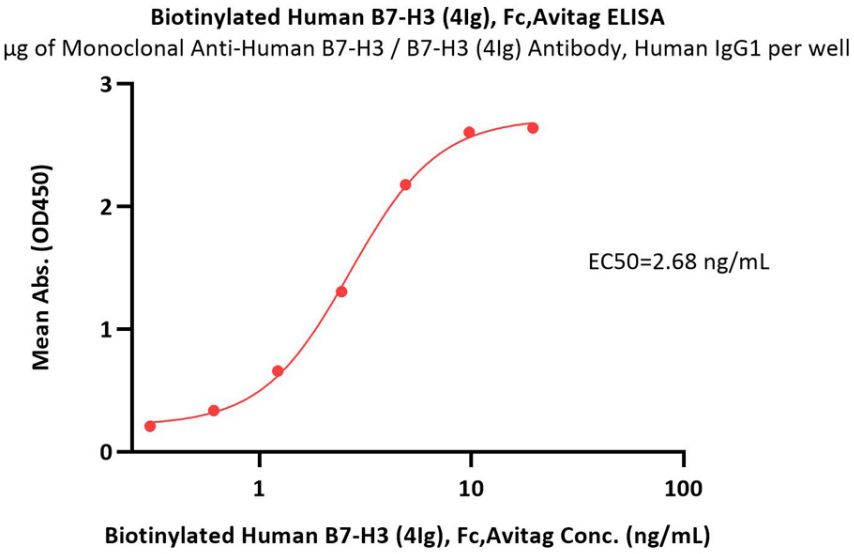


The purity of Biotinylated Human B7-H3 (4Ig), Fc,Avitag (Cat. No. B7B-H82F5) is more than 90% and the molecular weight of this protein is around 175-195 kDa verified by SEC-MALS.
Report

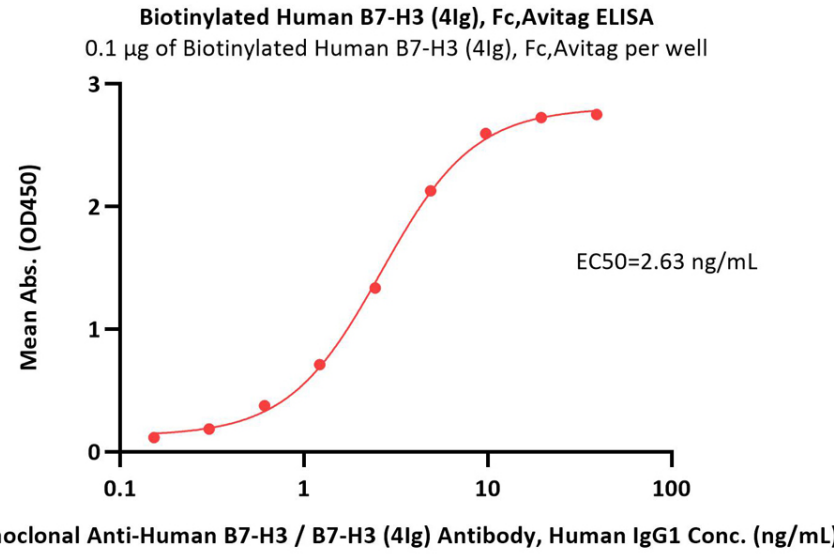
Bioactivity-ELISA

Biotinylated Human B7-H3 (4Ig) / B7-H3b Protein, Fc,Avitag™ (MALS verified)

Catalog # B7B-H82F5

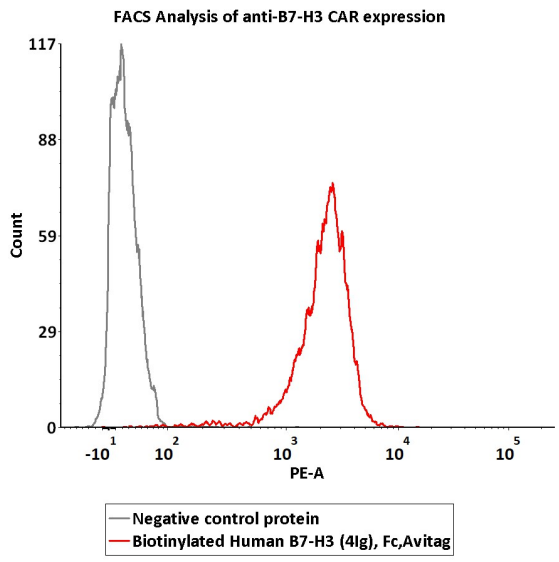


Immobilized Monoclonal Anti-Human B7-H3 / B7-H3 (4Ig) Antibody, Human IgG1 at 2 μg/mL (100 μL/well) can bind Biotinylated Human B7-H3 (4Ig), Fc,Avitag (Cat. No. B7B-H82F5) with a linear range of 0.3-2 ng/mL (QC tested).



Immobilized Biotinylated Human B7-H3 (4Ig), Fc,Avitag (Cat. No. B7B-H82F5) at 1 μg/mL (100 μL/well) on Streptavidin (Cat. No. STN-N5116) precoated (0.5 μg/well) plate, can bind Monoclonal Anti-Human B7-H3 / B7-H3 (4Ig) Antibody, Human IgG1 with a linear range of 0.3-5 ng/mL (Routinely tested).

Bioactivity-FACS



2e5 of anti-B7-H3 CAR-293 cells were stained with 100 μL of 0.3 μg/mL of Biotinylated Human B7-H3 (4Ig), Fc,Avitag (Cat. No. B7B-H82F5) and negative control protein respectively, washed and then followed by PE-SA and analyzed with FACS (Routinely tested).

Background

Human B7 homolog 3 (B7-H3) is a member of the B7 family of immune proteins that provide signals for the regulation of immune responses. Other family members include B7-1, B7-2, B7-H1/PD-L1, B7-H2, and PD-L2. B7 family proteins are type I transmembrane immunoglobulin (Ig) superfamily members that contain extracellular Ig V-like and Ig C-like domains with a short cytoplasmic tail. Termed 4IgB7-H3 or B7-H3b, this molecule has two additional Ig-like domains (one V-type and one C-type) and shows a ubiquituous expression pattern.