



## Synonym

B7-H3,CD276,B7 homolog 3

## Source

Biotinylated Human B7-H3 Protein, Fc,Avitag(B73-H82F5) is expressed from human 293 cells (HEK293). It contains AA Leu 29 - Pro 245 (Accession # [Q5ZPR3-2](#)).

Predicted N-terminus: Leu 29

## Molecular Characterization

B7-H3(Leu 29 - Pro 245) Q5ZPR3-2	Fc(Pro 100 - Lys 330) P01857	Avi
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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 51.6 kDa. The protein migrates as 63-70 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.

>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

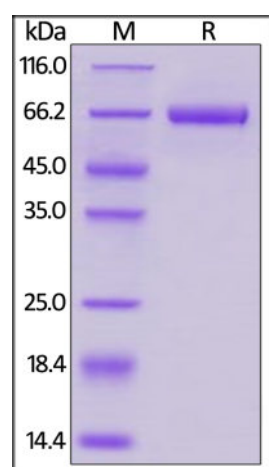
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

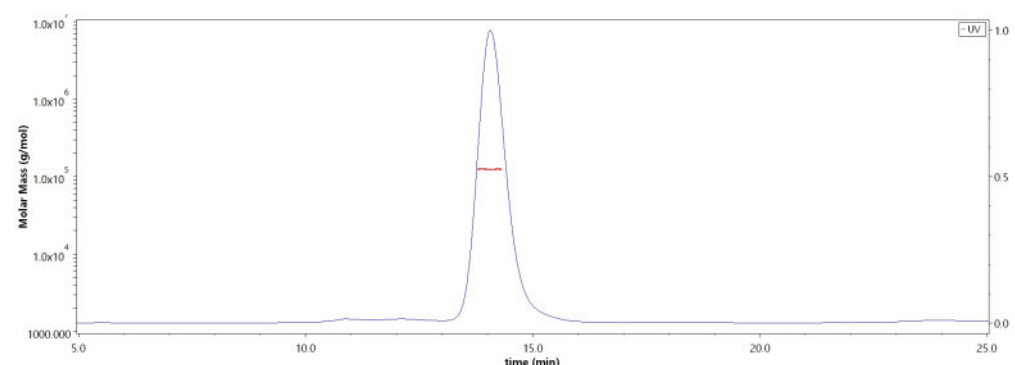
## SDS-PAGE



Biotinylated Human B7-H3 Protein, 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%.

## Bioactivity-ELISA

## SEC-MALS



The purity of Biotinylated Human B7-H3 Protein, Fc,Avitag (Cat. No. B73-H82F5) is more than 90% and the molecular weight of this protein is around 115-135 kDa verified by SEC-MALS.

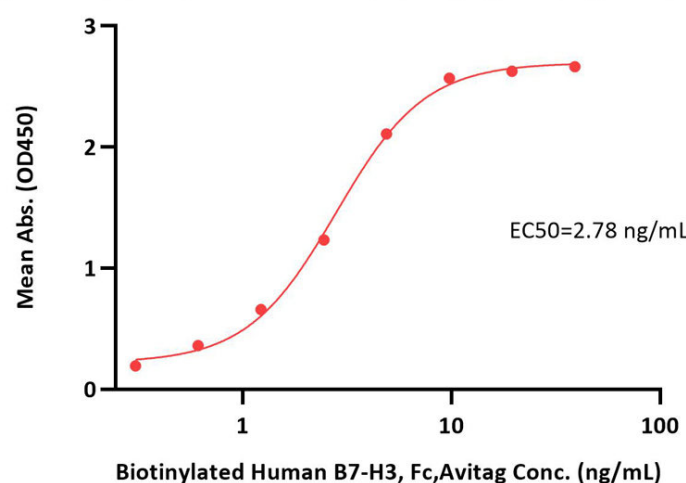
## Report

Discounts, Gifts,  
and more!



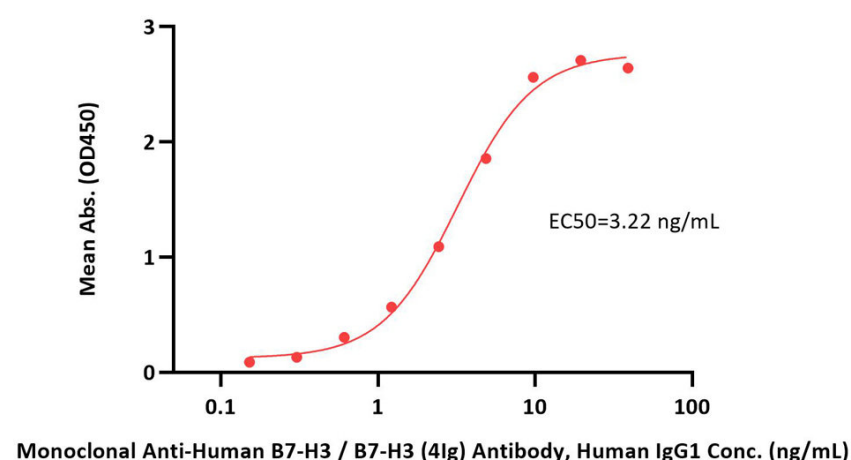


**Biotinylated Human B7-H3, Fc,Avitag ELISA**  
0.2 µg of Monoclonal Anti-Human B7-H3 / B7-H3 (4Ig) Antibody, Human IgG1 per well



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 Protein, Fc,Avitag (Cat. No. B73-H82F5) with a linear range of 0.3-4 ng/mL (QC tested).

**Biotinylated Human B7-H3, Fc,Avitag ELISA**  
0.1 µg of Biotinylated Human B7-H3, Fc,Avitag per well



Immobilized Biotinylated Human B7-H3 Protein, Fc,Avitag (Cat. No. B73-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).

## Background

B7 homolog 3 (B7-H3), a member of the immunoglobulin superfamily, is also known CD276, which contains two Ig-like C2-type (immunoglobulin-like) domains and two Ig-like V-type (immunoglobulin-like) domains. B7-H3 may participate in the regulation of T-cell-mediated immune response. B7-H3 also plays a protective role in tumor cells by inhibiting natural-killer mediated cell lysis as well as a role of marker for detection of neuroblastoma cells. Furthermore, B7-H3 is involved in the development of acute and chronic transplant rejection and in the regulation of lymphocytic activity at mucosal surfaces. It could also play a key role in providing the placenta and fetus with a suitable immunological environment throughout pregnancy.

## Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.

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