

Biotinylated Human B7-H4 Protein, Avitag™,His Tag (recommended for biopanning) (MALS verified)

Catalog # B74-H82E2



Synonym

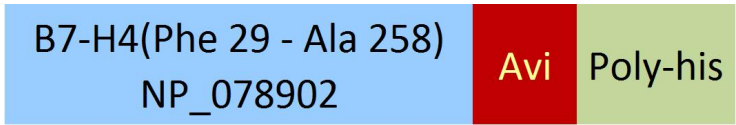
B7-H4,VTCN1,B7S1,B7h.5

Source

Biotinylated Human B7-H4 Protein, Avitag,His Tag(B74-H82E2) is expressed from human 293 cells (HEK293). It contains AA Phe 29 - Ala 258 (Accession # [NP\\_078902](#)).

Predicted N-terminus: Phe 29

Molecular Characterization



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

The protein has a calculated MW of 28 kDa. The protein migrates as 43-57 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.

Application

B74-H82E2 works best for experiments that test the binding between B7-H4 and candidate antibodies, such as biopanning and other relevant assays.

Purity

>90% 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

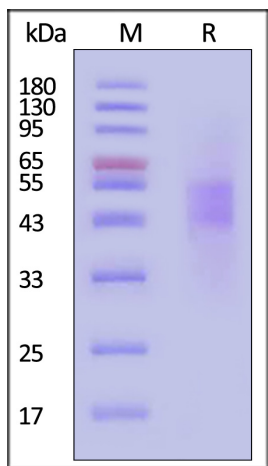
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

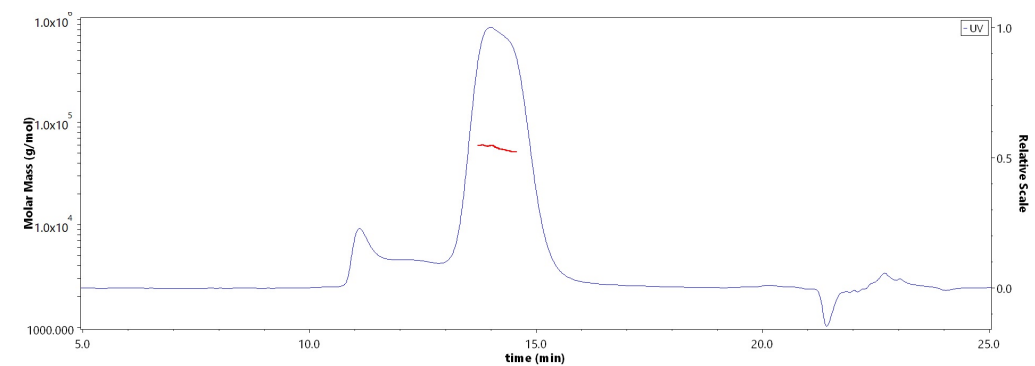
SDS-PAGE



Biotinylated Human B7-H4 Protein, Avitag,His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-ELISA

SEC-MALS



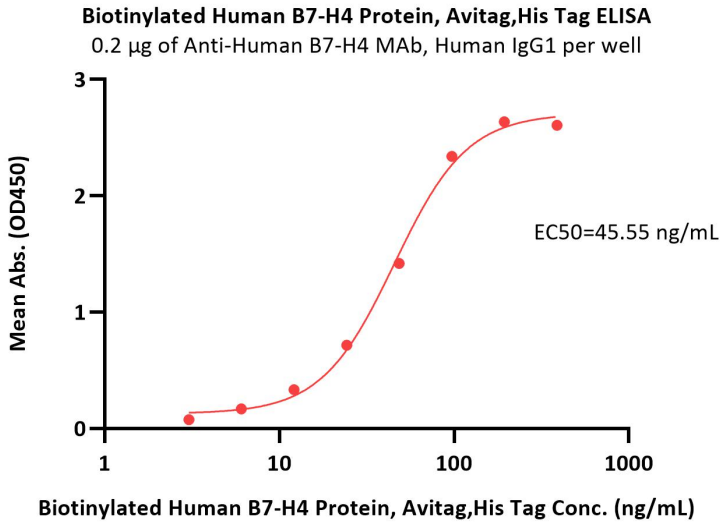
The purity of Biotinylated Human B7-H4 Protein, Avitag,His Tag (Cat. No. B74-H82E2) is more than 85% and the molecular weight of this protein is around 40-60 kDa verified by SEC-MALS. [Report](#)

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**Biotinylated Human B7-H4 Protein, Avitag™,His Tag (recommended for biopanning) (MALS verified)**

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Immobilized Anti-Human B7-H4 MAb, Human IgG1 at 2 µg/mL (100 µL/well) can bind Biotinylated Human B7-H4 Protein, Avitag,His Tag (Cat. No. B74-H82E2) with a linear range of 3-48 ng/mL (QC tested).

**Background**

V-set domain-containing T-cell activation inhibitor 1 (VTCN1) is also known as Immune costimulatory protein B7-H4, Protein B7S1, T-cell costimulatory molecule B7x, B7H4, which belongs to the immunoglobulin superfamily and BTN/MOG family. VTCN1 contains two Ig-like V-type (immunoglobulin-like) domains. The expression of VTCN1 is up-regulated by IL6 and IL10 and is inhibited by GM-CSF and IL4 on antigen-presenting cells (APCs). VTCN1 / B7-H4 negatively regulates T-cell-mediated immune response by inhibiting T-cell activation, proliferation, cytokine production and development of cytotoxicity. VTCN1 involved in promoting epithelial cell transformation.

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