

Biotinylated Human BTLA (31-150) Protein, Fc,Avitag™ (MALS verified)

Catalog # BTA-H82F3



Synonym

BTLA,CD272

Source

Biotinylated Human BTLA (31-150), Fc,Avitag(BTA-H82F3) is expressed from human 293 cells (HEK293). It contains AA Lys 31 - Ser 150 (Accession # [AAP44003.1](#)).
Predicted N-terminus: Lys 31

Molecular Characterization

BTLA(Lys 31 - Ser 150) AAP44003.1	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 42.5 kDa. The protein migrates as 55-66 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.

Purity

>95% as determined by SDS-PAGE.

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.

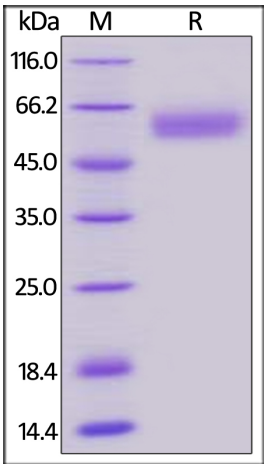
Storage

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:

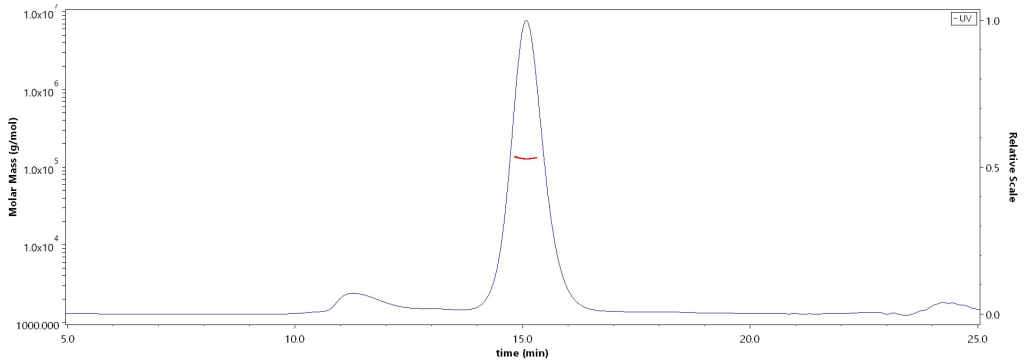
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Biotinylated Human BTLA (31-150), 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%.

SEC-MALS



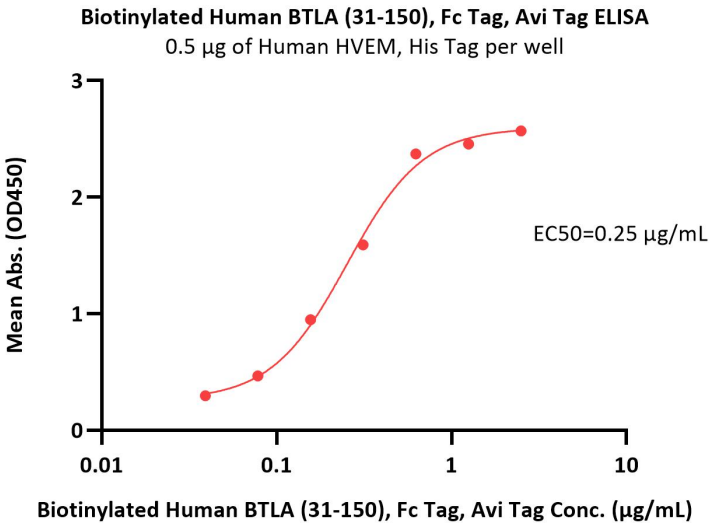
The purity of Biotinylated Human BTLA (31-150), Fc,Avitag (Cat. No. BTA-H82F3) is more than 80% and the molecular weight of this protein is around 115-145 kDa verified by SEC-MALS.
[Report](#)

Bioactivity-ELISA



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Immobilized Human HVEM, His Tag (Cat. No. HVM-H52E9) at 5 µg/mL (100 µL/well) can bind Biotinylated Human BTLA (31-150), Fc,Avitag (Cat. No. BTA-H82F3) with a linear range of 0.02-0.625 µg/mL (QC tested).

Background

B- and T-lymphocyte attenuator (BTLA) is also known as B- and T-lymphocyte-associated protein, CD antigen CD272. BTLA contains one Ig-like V-type (immunoglobulin-like) domain. As a lymphocyte inhibitory receptor, BTLA / CD272 inhibits lymphocytes during immune response. BTLA / CD272 can interact with tyrosine phosphatases PTPN6/SHP-1 and PTPN11/SHP-2, and interact with TNFRSF14/HVEM.

