

Biotinylated Human IL-17B Protein, Fc,Avitag™ (MALS verified)

Catalog # ILB-H82F1



Synonyms

Interleukin-17B, Cytokine Zcyto7, Interleukin-20, IL-20, Neuronal interleukin-17-related factor, IL17B, IL20, NIRF, ZCYTO7

Source

Biotinylated Human IL-17B, Fc,Avitag (ILB-H82F1) is expressed from human 293 cells (HEK293). It contains AA Gln 21 - Phe 180 (Accession # [Q9UHF5-1](#)).

Predicted N-terminus: Gln 21

Molecular Characterization

IL-17B(Gln 21 - Phe 180) Q9UHF5-1	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 45.8 kDa. The protein migrates as 55-60 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.

>90% as determined by SEC-MALS.

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.

Shipping and Storage

This product is shipped at ambient temperature.

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

Please avoid repeated freeze-thaw cycles.

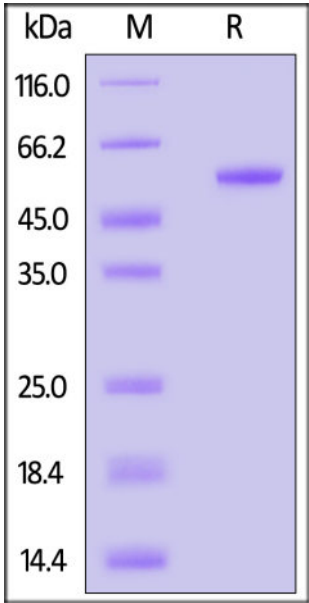
This product is stable after storage at:

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

ACRO Quality Management System

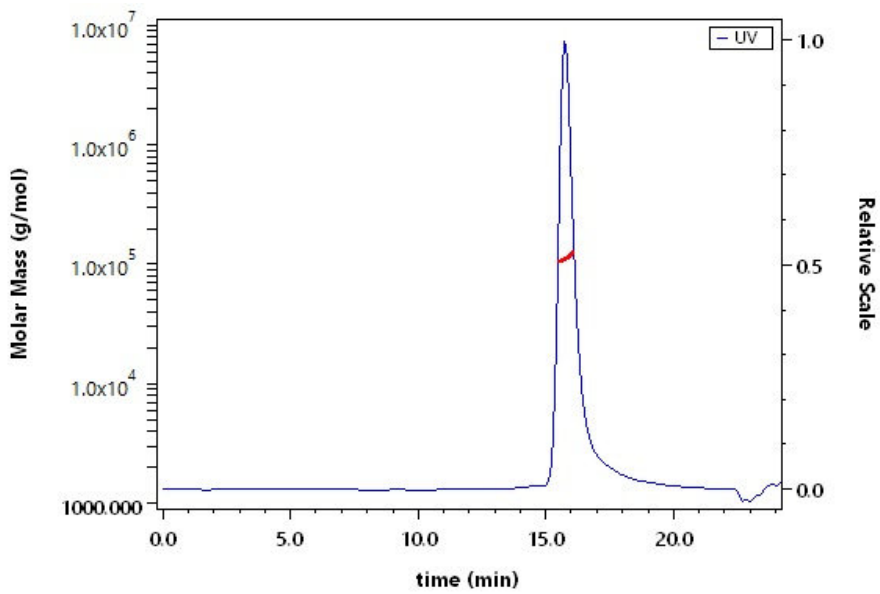
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



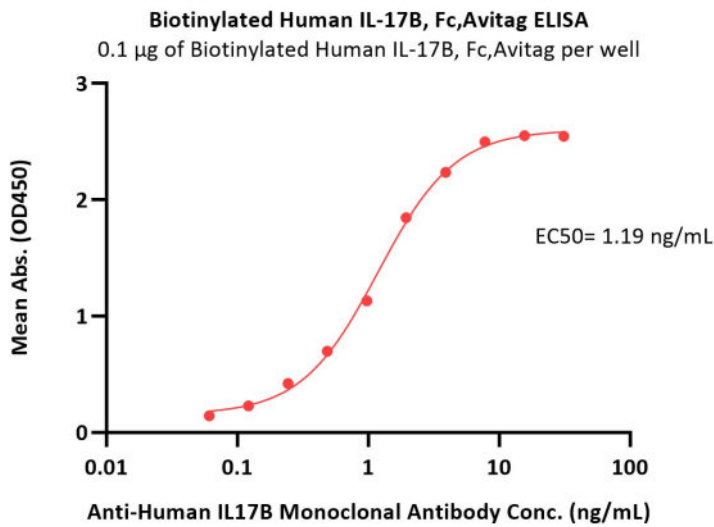
Biotinylated Human IL-17B, Fc,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS



The purity of Biotinylated Human IL-17B, Fc,Avitag (Cat. No. ILB-H82F1) is more than 90% and the molecular weight of this protein is around 100-120 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Biotinylated Human IL-17B, Fc,Avitag (Cat. No. ILB-H82F1) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Anti-Human IL17B Monoclonal Antibody with a linear range of 0.1-8 ng/mL (Routinely tested).

Background

IL-17B is a member of IL17 family, was originally described as a proinflammatory cytokine. IL-17B is produced by neutrophils and potentiates TNF- α effect on the production of cytokines and chemokines, such as IL-6, G-CSF, and CCL20, known to control immune cell trafficking to inflamed tissues. Interestingly, although IL-17B and IL-17E (IL-25) share a common receptor, IL-17RB, IL-17B, and IL-17E deficiency lead to opposite results in a model of acute colitis induced by dextran sulfate sodium. IL-17B inhibits IL-17E binding to IL-17RA– IL-17RB complexes on epithelial cells, and limits IL-17E-induced IL-6 production by colon epithelial cells.



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