



## Synonym

LAG3,CD223,FDC

## Source

Biotinylated Human LAG-3, Fc,Avitag(LA3-H82Fb) is expressed from human 293 cells (HEK293). It contains AA Leu 23 - Leu 450 (Accession # [P18627-1](#)).

Predicted N-terminus: Leu 23

## Molecular Characterization

LAG-3(Leu 23 - Leu 450) P18627-1	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 75.0 kDa. The protein migrates as 90 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

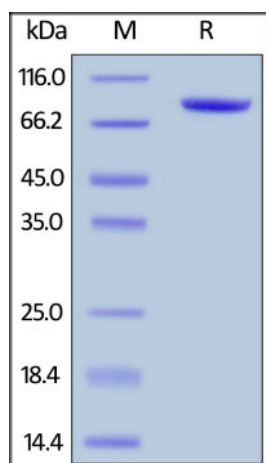
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

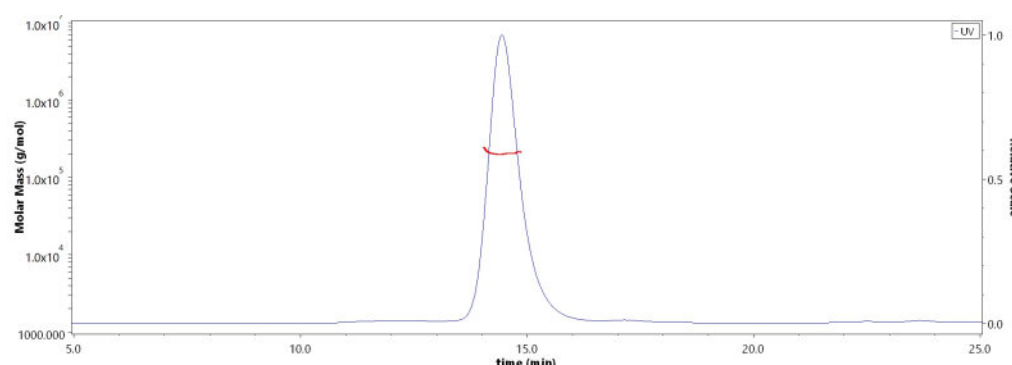
## SDS-PAGE



Biotinylated Human LAG-3, 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

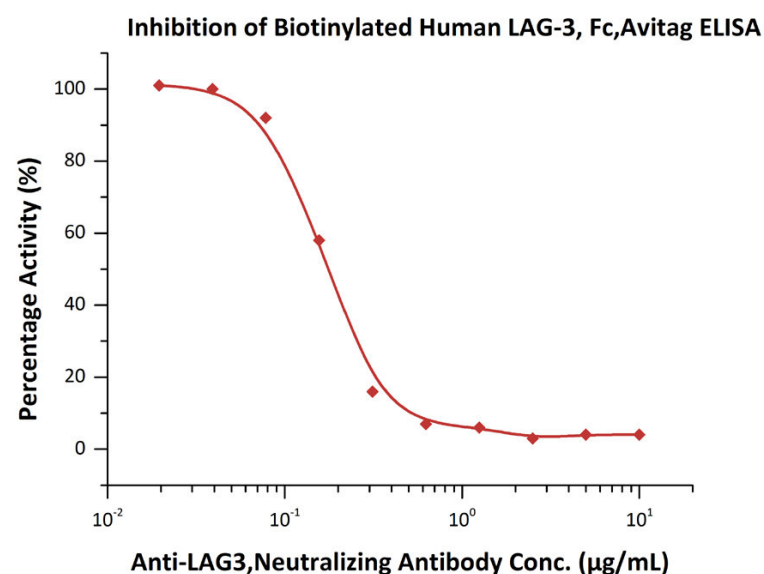
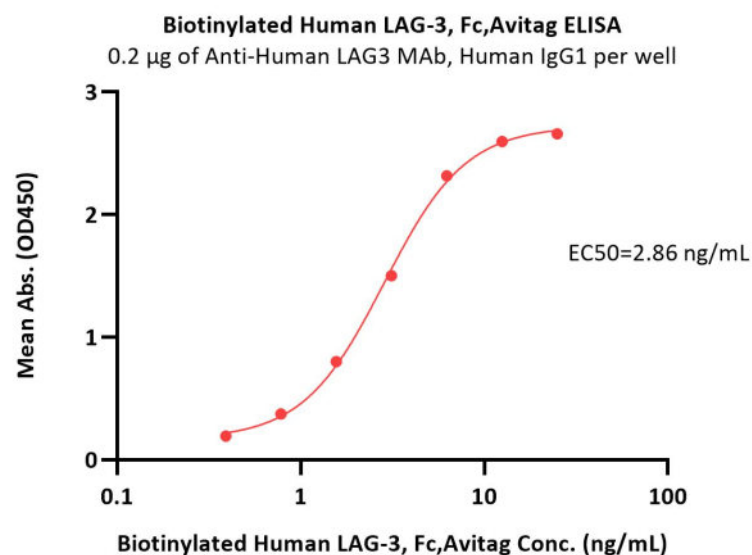


The purity of Biotinylated Human LAG-3, Fc,Avitag (Cat. No. LA3-H82Fb) is more than 90% and the molecular weight of this protein is around 200-260 kDa verified by SEC-MALS.

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Immobilized Anti-Human LAG3 MAb, Human IgG1 at 2 µg/mL (100 µL/well) can bind Biotinylated Human LAG-3, Fc,Avitag (Cat. No. LA3-H82Fb) with a linear range of 0.1-3 ng/mL (QC tested).

Serial dilutions of Anti-LAG3, Neutralizing Antibody were added into Human FGL1, His Tag (Cat. No. FG1-H52Hy): Biotinylated Human LAG-3, Fc,Avitag (Cat. No. LA3-H82Fb) binding reactions. The half maximal inhibitory concentration (IC<sub>50</sub>) is 0.16695 µg/mL (Routinely tested).

## Background

Lymphocyte activation gene 3 protein (LAG3) is also known as CD antigen CD223 and protein FDC, which belongs to immunoglobulin (Ig) superfamily and contains 4 extracellular Ig-like domains. The LAG3 gene contains 8 exons. The sequence data, exon/intron organization, and chromosomal localization all indicate a close relationship of LAG3 to CD4. LAG3 /CD223 involved in lymphocyte activation. LAG3 /CD223 binds to HLA class-II antigens.

## Clinical and Translational Updates

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