



**Synonym**

LAG3,CD223,FDC

**Source**

Human LAG-3 Protein, His Tag(LA3-H522a) 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 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 47.1 kDa. The protein migrates as 55-60 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 0.01 EU per µg by the LAL method.

**Purity**

>95% 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**

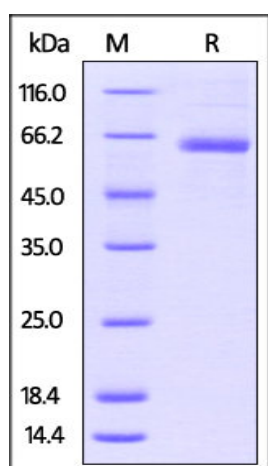
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

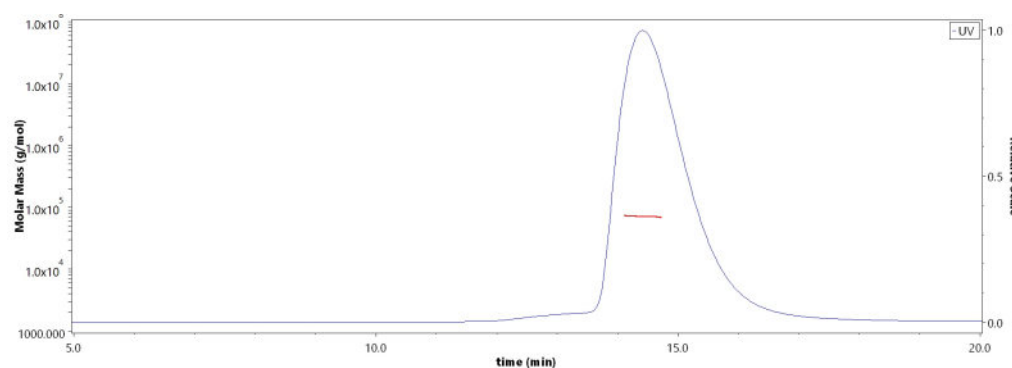
**SDS-PAGE**



Human LAG-3 Protein, His Tag 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**

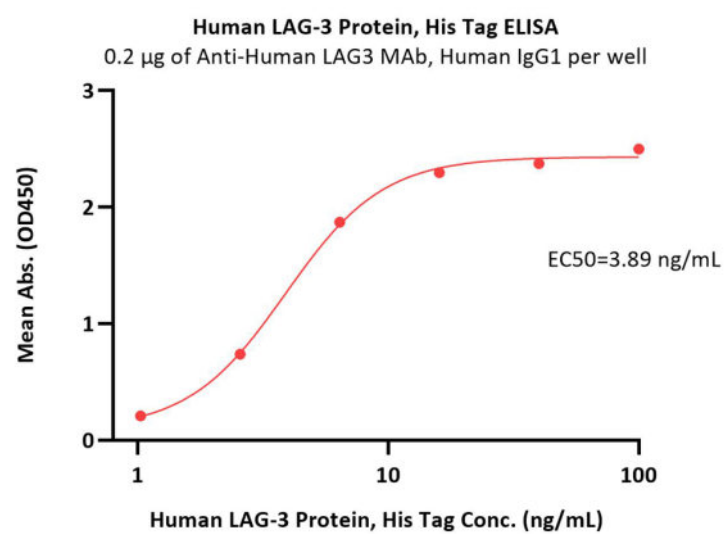


The purity of Human LAG-3 Protein, His Tag (Cat. No. LA3-H522a) is more than 85% and the molecular weight of this protein is around 60-85 kDa verified by SEC-MALS.

[Report](#)

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Immobilized Anti-Human LAG3 MAb, Human IgG1 at 2 µg/mL (100 µL/well) can bind Human LAG-3 Protein, His Tag (Cat. No. LA3-H522a) with a linear range of 1-6 ng/mL (QC 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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