

Human LAG3 / CD223 Protein, Fc Tag, low endotoxin (MALS verified)

Catalog # LA3-H5255



BIOSYSTEMS
Acro

Synonym

LAG3, CD223, FDC

Source

Human LAG-3, Fc Tag (LA3-H5255) 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(Glu 99 - Lys 330) P01857
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This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 72.8 kDa. The protein migrates as 80-90 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 0.01 EU per µg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

>95% 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.

Storage

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

Please avoid repeated freeze-thaw cycles.

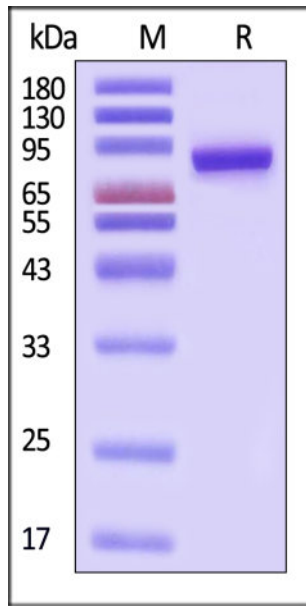
This product is stable after storage at:

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

ACRO Quality Management System

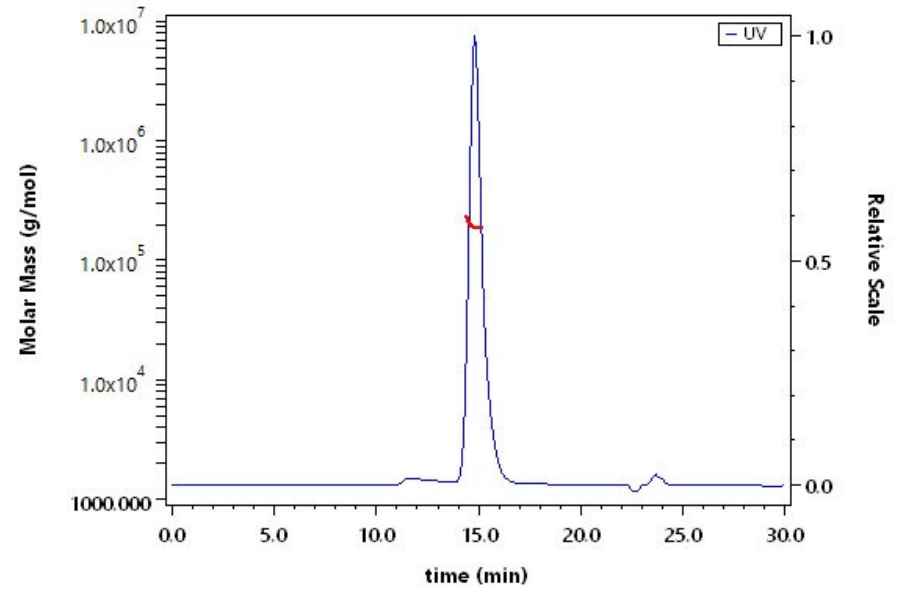
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



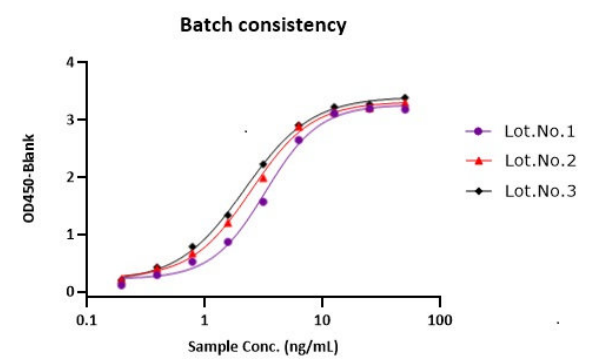
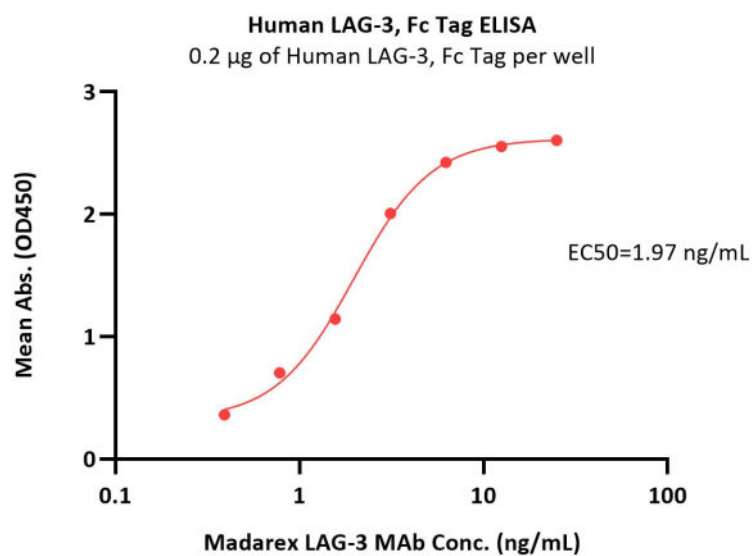
Human LAG-3, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS



The purity of Human LAG-3, Fc Tag (Cat. No. LA3-H5255) is more than 95% and the molecular weight of this protein is around 160-230 kDa verified by SEC-MALS.

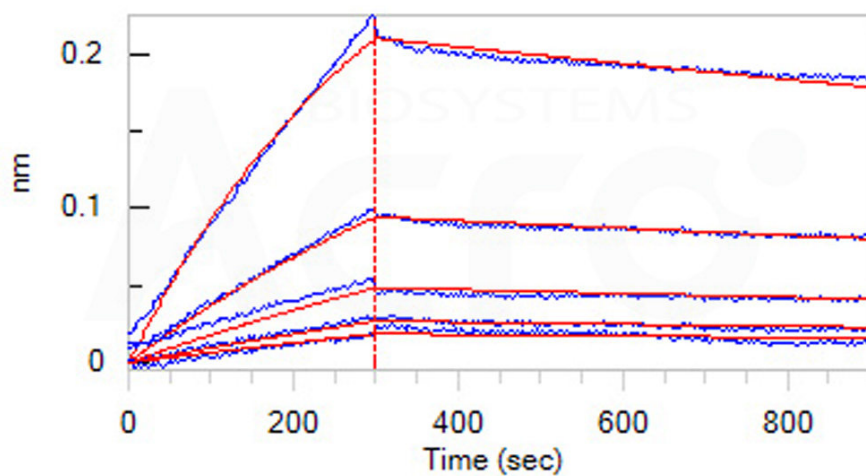
Bioactivity-ELISA



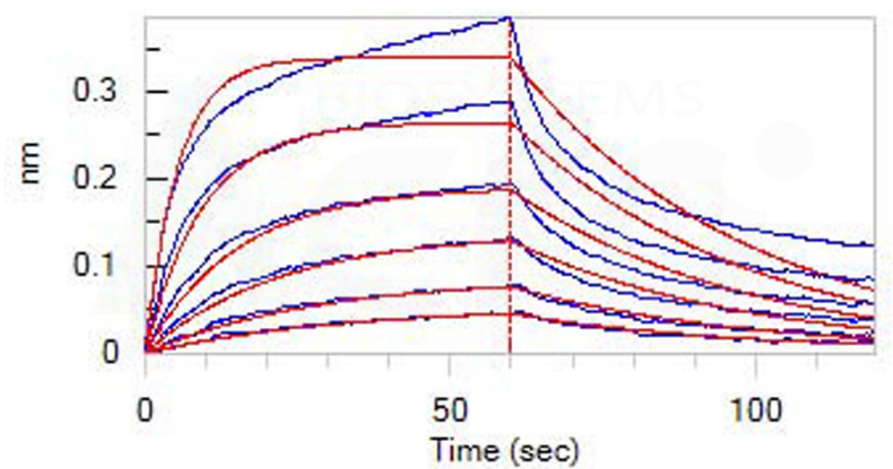
Lot.No.	EC50(ng/ml)
Lot.No.1	3.256
Lot.No.2	2.476
Lot.No.3	2.167

Immobilized Human LAG-3, Fc Tag (Cat. No. LA3-H5255) at 2 µg/mL (100 µL/well) can bind Madarex LAG-3 MAb with a linear range of 0.4-3 ng/mL (QC tested).

Bioactivity-BLI



Loaded Human LAG-3, Fc Tag (Cat. No. LA3-H5255) on Protein A Biosensor, can bind Human FGL1, His Tag (Cat. No. FG1-H52Hy) with an affinity constant of 7.09 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).



Loaded Biotinylated Human FGL1 Protein, His, Avitag (Cat. No. FG1-H82Ey) on SA Biosensor, can bind Human LAG-3 Protein, Fc Tag (Cat. No. LA3-H5255) with an affinity constant of 8.12 nM as determined in BLI assay (ForteBio Octet Red96e) (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.

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5/29/2026
