

Biotinylated Cynomolgus LAG-3 / CD223 Protein, Mouse IgG2a Fc Tag, ultra sensitivity (primary amine labeling) (MALS verified)

Catalog # LA3-C8258



Synonyms

LAG3, CD223, FDC

Source

Biotinylated Cynomolgus LAG-3, Mouse IgG2a Fc Tag, primary amine labeling (LA3-C8258) is expressed from human 293 cells (HEK293). It contains AA Ala 18 - His 449 (Accession # [XP_005570011.1](#)). It is the biotinylated form of Cynomolgus LAG-3, Mouse IgG2a Fc tag (Cat. No. LA3-C52A0).

Predicted N-terminus: Ala 18

Molecular Characterization

LAG-3(Ala 18 - His 449)	mFc(Glu 98 - Lys 330)
XP_005570011.1	P01863

This protein carries a mouse IgG2a Fc tag at the C-terminus.

The protein has a calculated MW of 73.5 kDa. The protein migrates as 80-90 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with biotins using standard chemical labeling method. A standard biotin reagent (13.5 angstroms) is used in this product.

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

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.

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.

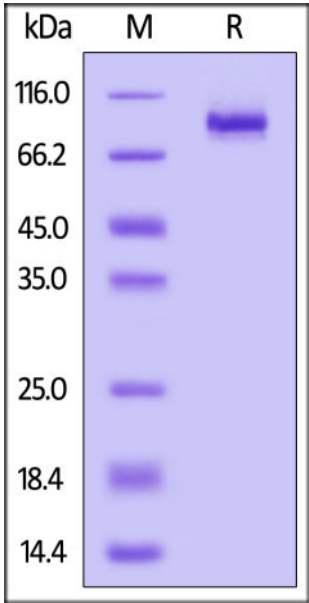
This product is stable after storage at:

- -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

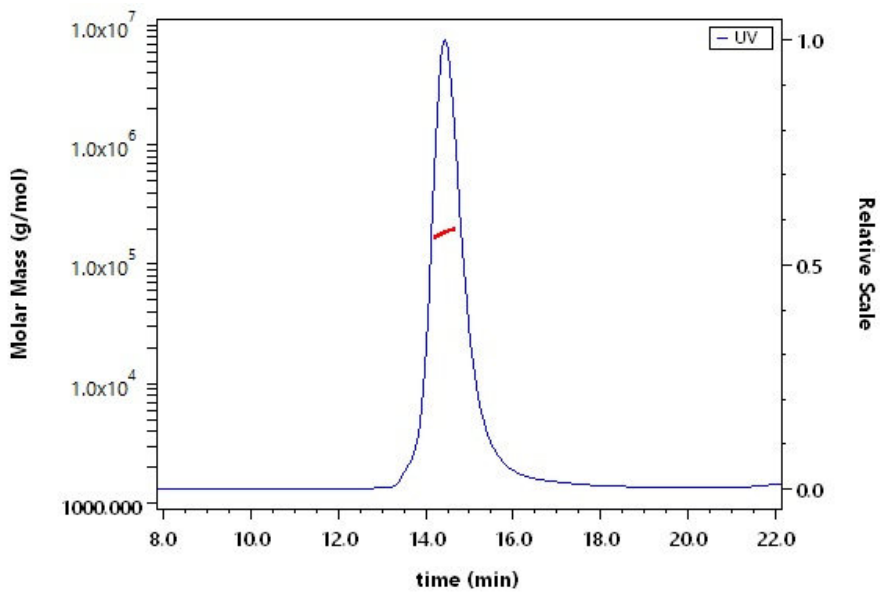
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



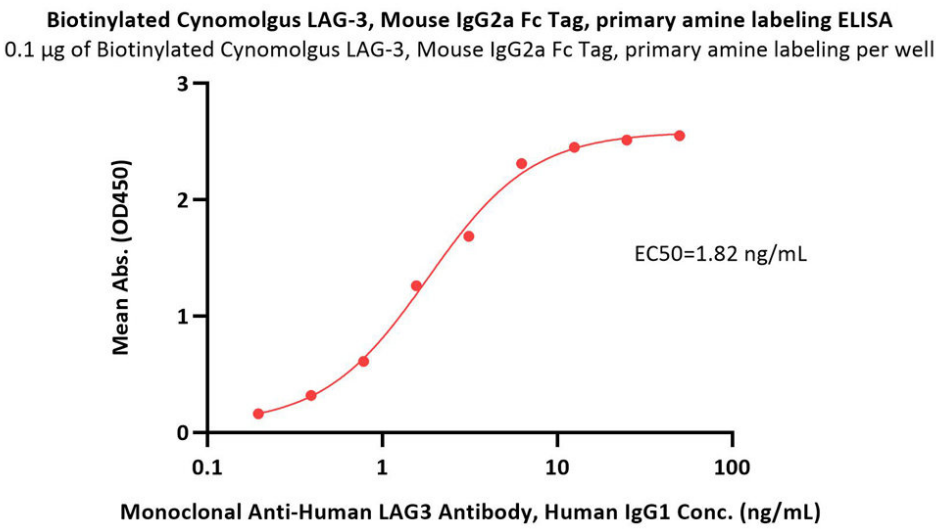
Biotinylated Cynomolgus LAG-3, Mouse IgG2a Fc Tag, primary amine labeling on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS



The purity of Biotinylated Cynomolgus LAG-3, Mouse IgG2a Fc Tag, primary amine labeling (Cat. No. LA3-C8258) is more than 95% and the molecular weight of this protein is around 165-210 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Biotinylated Cynomolgus LAG-3, Mouse IgG2a Fc Tag, primary amine labeling (Cat. No. LA3-C8258) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Monoclonal Anti-Human LAG3 Antibody, Human IgG1 with a linear range of 0.2-6 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.



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