



## Synonym

LAG3,CD223,FDC

## Source

Mouse LAG-3 Protein, Fc Tag(LA3-M5253) is expressed from human 293 cells (HEK293). It contains AA Gly 24 - Leu 442 (Accession # [Q61790-1](#)).

Predicted N-terminus: Gly 24

## Molecular Characterization

LAG-3(Gly 24 - Leu 442)	Fc(Pro 100 - Lys 330)
Q61790-1	P01857

This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 71.7 kDa. The protein migrates as 80-100 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per  $\mu$ g by the LAL method / rFC method.

## Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

## Formulation

Lyophilized from 0.22  $\mu$ m 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

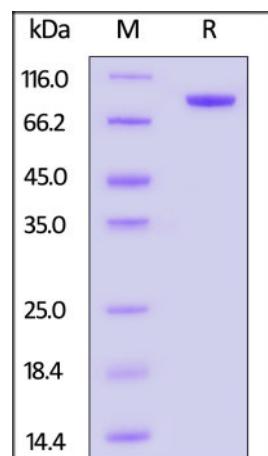
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

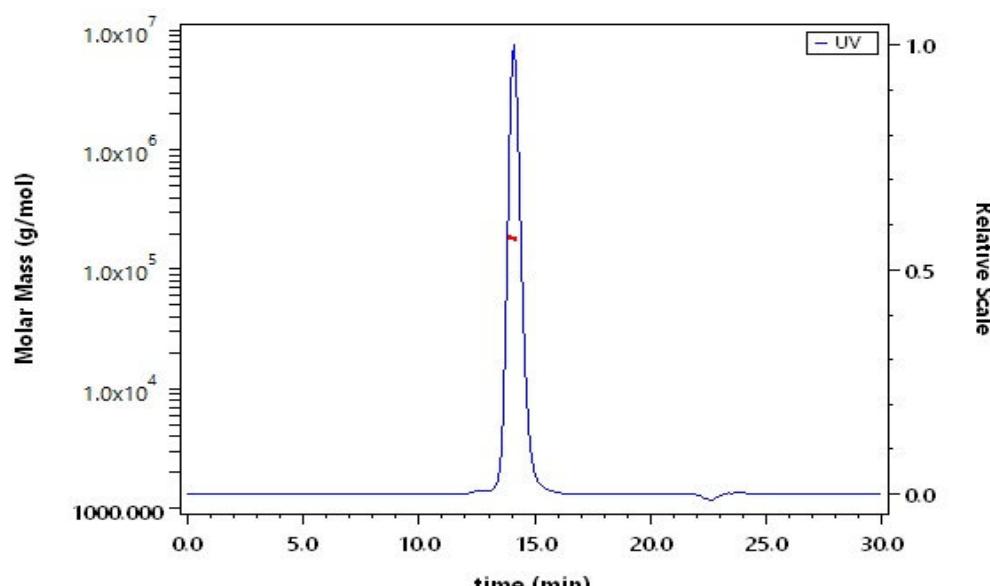
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



Mouse LAG-3 Protein, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

## SEC-MALS



The purity of Mouse LAG-3 Protein, Fc Tag (Cat. No. LA3-M5253) is more than 90% and the molecular weight of this protein is around 165-195 kDa verified by SEC-MALS.

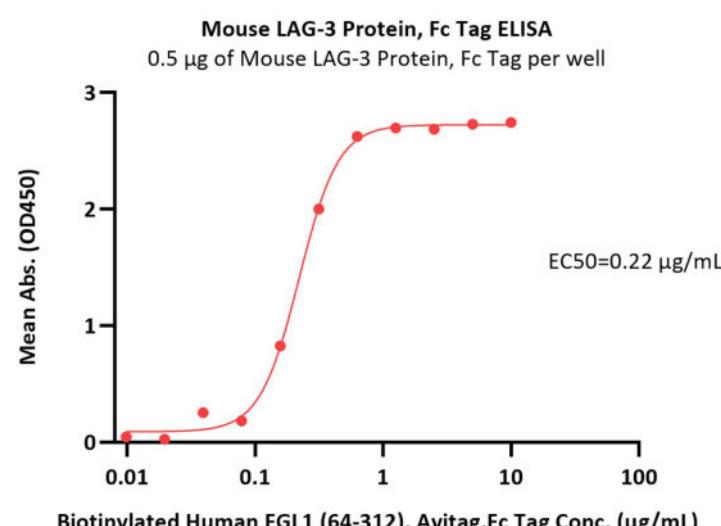
[Report](#)

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Immobilized Mouse LAG-3 Protein, Fc Tag (Cat. No. LA3-M5253) at 5 µg/mL (100 µL/well) can bind Biotinylated Human FGL1 (64-312), Avitag, Fc Tag (Cat. No. FG1-H82F6) with a linear range of 0.01-0.313 µg/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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