

## LAG-3 Protein, Mouse, Recombinant (His & Avi), Biotinylated

### General Information

Synonyms: LAG-3;Lag3;Ly66;CD223

Protein Construction: A DNA sequence encoding the Mouse LAG3 (NP\_032505.1)(Met1-Leu442) was expressed with a C-terminal polyhistidine tag followed by an AVI tag. The expressed protein was biotinylated in vivo by the Biotin-Protein ligase (BirA enzyme) which is co-expressed.

Species: Mouse

Expression Host: HEK293 Cells

Accession: Q61790

Molecular Weight: 48.5 kDa (predicted); 57.8 kDa (reducing condition)

### QC Testing

Biological Activity: Immobilized Recombinant Mouse LAG3 Protein (His & AVI Tag), Biotinylated at 2 µg/mL (100 µL/well) on streptavidin precoated (2 µg/mL, 100 µL/well) can bind Recombinant Mouse FGL1 Protein (Fc Tag) with a linear range of 0.16-2.5 µg/mL

Purity: ≥ 95% as determined by SDS-PAGE. ≥ 95% as determined by SEC-HPLC.

Endotoxin: < 1.0 EU/µg of the protein as determined by the LAL method.

Formulation: Lyophilized from sterile PBS, pH 7.4. Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hardcopy of datasheet or the lot-specific COA.

### Preparation and Storage

Reconstitution:

Please refer to the lot-specific COA.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

LAG3 (Lymphocyte Activating 3) is a Protein Coding gene. 2 alternatively spliced human isoforms have been reported. LAG3, also known as CD223 and Lymphocyte activation gene 3, belongs to the immunoglobulin (Ig)

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superfamily. The LAG3 gene contains 8 exons. It is selectively expressed in activated T and NK cells. LAG3 contains 4 extracellular Ig-like domains and has a negative regulatory function in T cells. It also acts as a new marker of T cell-induced B cell activation. As a soluble molecule, LAG3 activates antigen-presenting cells through MHC class II signaling, leading to increased antigen-specific T-cell responses in vivo. Diseases associated with LAG3 include Smoldering Myeloma and Kyphoscoliotic Heart Disease. Cancer Immunotherapy Co-inhibitory Immune Checkpoint Targets Immune Checkpoint Targets Immunotherapy Targeted Therapy

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