

LAG-3 Protein, Mouse, Recombinant (His)

General Information

Synonyms:	LAG-3;Ly66;lymphocyte-activation gene 3;CD223
Protein Construction:	A DNA sequence encoding the mouse Lag3 (NP_032505.1) (Met1-Leu442) was expressed with a polyhistidine tag at the C-terminus. Predicted N terminal: Gly 24
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q61790
Molecular Weight:	46.7 kDa (predicted); 57.9 kDa (reducing condition, due to glycosylation)

QC Testing

Biological Activity:	1. Measured by its ability to bind FGL1 Protein, Mouse, Recombinant (hFc) (Cat#TMPY-05785) in functional ELISA. 2. Immobilized LAG-3 Protein, Mouse, Recombinant (His) (Cat#TMPY-04612) at 5 µg/mL (100 µL/well) can bind FGL1 Protein, Human, Recombinant (hFc) (Cat#TMPY-05734), the EC50 is 1364.3 ng/mL.
Purity:	> 95 % as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

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)

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

Reference

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Huard B. et al., 1997, Proc Natl Acad Sci. 94 (11): 5744-9.
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