

Human LAG3 / CD223 / Lymphocyte activation gene 3 Protein (Fc Tag)

Catalog Number: 16498-H05H



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

CD223; LAG-3

Protein Construction:

A DNA sequence encoding the human LAG3 (NP_002277.4) (Met1-Leu450) was expressed with the Fc region of mouse IgG1 at the C-terminus.

Source: Human

Expression Host: HEK293 Cells

QC Testing

Purity: > 90 % as determined by SDS-PAGE.

Endotoxin:

< 1.0 EU per µg protein as determined by the LAL method.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Val 29

Molecular Mass:

The recombinant human LAG3 consists of 656 amino acids and predicts a molecular mass of 72 kDa.

Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

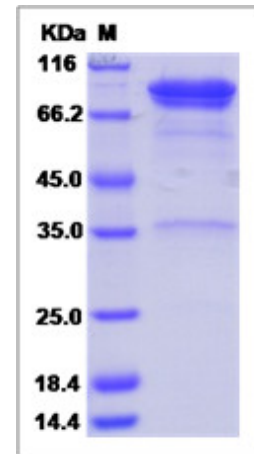
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

LAG3, also known as CD223 and Lymphocyte activation gene 3, belongs to immunoglobulin (Ig) superfamily. LAG3 contains 4 extracellular Ig-like domains. The LAG3 gene contains 8 exons. It is selectively expressed in activated T and NK cells. LAG3 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 signalling, leading to increased antigen-specific T-cell responses in vivo.

References

1. Sigrid Hannier. et al., 1998, The Journal of Immunology. 161(8): 4058-65.
2. Triebel F. et al., 1990, J Exp Med. 171 (5): 1393-405.
3. Baixeras E. et al., 1992, J Exp Med. 176 (2): 327-37.

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For US Customer : Fax: 267-657-0217

● Tel : 215-583-7898

Global Customer : Fax :+86-10-5862-8288

● Tel:+86-400-890-9989

● <http://www.sinobiological.com>