

# Rat LAG3 / CD223 / Lymphocyte activation gene 3 Protein (His Tag)

Catalog Number: 80367-R08H



Sino Biological  
Biological Solution Specialist

## General Information

### Gene Name Synonym:

LAG3

### Protein Construction:

A DNA sequence encoding the rat LAG3 (Q5BK54)(Met1-Leu442) was expressed with a polyhistidine tag at the C-terminus.

**Source:** Rat

**Expression Host:** HEK293 Cells

## QC Testing

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

### Bio Activity:

**Measured by its ability to bind FGL1 Protein, Mouse, Recombinant (hFc Tag)(Cat:5A2001-M02H) in functional ELISA.**

### Endotoxin:

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

**Predicted N terminal:** Gly 24

### Molecular Mass:

The recombinant rat LAG3 comprises 430 amino acids and predicts a molecular mass of 47.1 kDa. The apparent molecular mass of the recombinant protein is approximately 55 kDa in SDS-PAGE under reducing conditions due to glycosylation.

### Formulation:

Lyophilized from sterile 20 mM NaAc, 500 mM NaCl, 10 % Glycerol, 0.02 % tween 20, pH 5.5.

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

### Stability & Storage:

Samples are stable for twelve months from date of receipt at -20°C to -80°C.

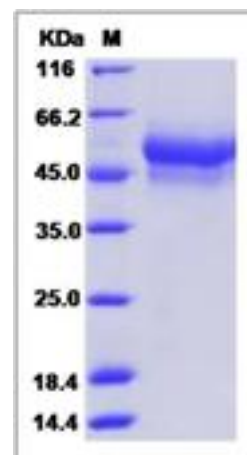
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

LAG3 (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.

## 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.