

# Human LAG3/CD223 Protein

Cat. No. LAG-HM231

## Description

<b>Source</b>	Recombinant Human LAG3/CD223 Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Leu23-Leu450.
<b>Accession</b>	P18627-1
<b>Molecular Weight</b>	The protein has a predicted MW of 72.4 kDa. Due to glycosylation, the protein migrates to 75-80 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE

## Formulation and Storage

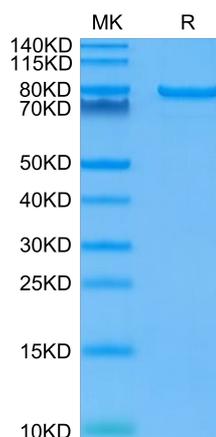
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

LAG-3, is a protein which in humans is encoded by the LAG3 gene, which is a cell surface molecule with diverse biologic effects on T cell function. It is an immune checkpoint receptor and as such is the target of various drug development programs by pharmaceutical companies seeking to develop new treatments for cancer and autoimmune disorders.

## Assay Data

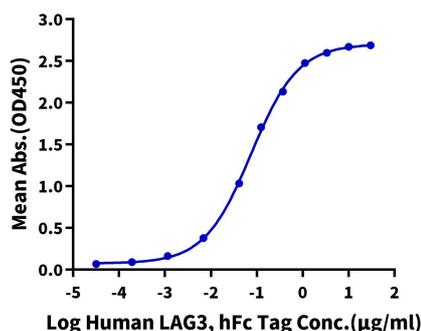
### Bis-Tris PAGE



Human LAG3 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%

### ELISA Data

**Human LAG3, hFc Tag ELISA**  
0.1µg Human FGL1, His Tag Per Well



Immobilized Human FGL1, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human LAG3, hFc Tag with the EC50 of 75.1ng/ml determined by ELISA.