

# Active Recombinant Human Lymphocyte-Activation Gene 3, Fc-tagged

**Cat. No.** LAG3-5675H    **Lot. No.** (See product label)

## SPECIFICATION

**Product Overview**      Recombinant Human LAG3 protein was expressed in Murine myeloma cell line with the Fc part of human IgG1 Pro100-Lys330 (C-terminus) and Leu23-Leu450 (N-terminus).

**Species**      Human

**Source**      Mammalian Cells

**Protein Length**      23-450 a.a.

**Description**      LAG3, also known as CD223, is a member of the immunoglobulin superfamily. The mature LAG3 protein is a 496 amino acid (aa) membrane protein with a 421 aa extracellular region which contains four IgSF domains, a 21 aa transmembrane region and a 54 aa cytoplasmic region. LAG3 and CD4 molecules share < 20% aa sequence homology but have a similar structure. Both molecules bind to MHC class II. LAG3 binds to MHC class II with higher affinity compared to CD4. Both LAG3 and CD4 genes are located on the distal part of the short arm of chromosome 12.

**Form**      Lyophilized from a 0.2 µm filtered solution in PBS.

**N-terminal Sequence**      Leu23

**Molecular Weight**      72.7 kDa

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<b>Activity</b>	Measured by its ability to stimulate TNF $\alpha$ secretion by human monocytes. The ED50 for this effect is typically 0.8-2.4 $\mu$ g/mL.
<b>Endotoxin Level</b>	<1.0 EU per 1 $\mu$ g of the protein by the LAL method.
<b>SDS-PAGE</b>	90 kDa, reducing conditions.
<b>Purity</b>	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
<b>Reconstitution</b>	100 $\mu$ g/mL in sterile PBS
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

## GENE INFORMATION

<b>Gene Name</b>	LAG3 lymphocyte-activation gene 3 [ Homo sapiens ]
<b>Official Symbol</b>	LAG3
<b>Synonyms</b>	LAG3; lymphocyte-activation gene 3; CD223; lymphocyte activation gene 3 protein; Protein FDC; FDC; OTTHUMP00000240397; LAG-3
<b>Gene ID</b>	3902
<b>mRNA Refseq</b>	NM_002286
<b>Protein Refseq</b>	NP_002277

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<b>MIM</b>	153337
<b>UniProt ID</b>	P18627
<b>Chromosome Location</b>	12p13.3
<b>Function</b>	MHC class II proteinbinding; antigen binding; transmembrane signaling receptor activity

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