

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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Activity	Measured by its ability to stimulate TNF α secretion by human monocytes. The ED50 for this effect is typically 0.8-2.4 μ g/mL.
Endotoxin Level	<1.0 EU per 1 μ g of the protein by the LAL method.
SDS-PAGE	90 kDa, reducing conditions.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	100 μ g/mL in sterile PBS
Storage	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

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

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

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