

## 32-8624: Recombinant Mouse Lymphocyte Activation Gene 3/LAG-3/CD223 (C-6His)

**Gene :** Lag3  
**Gene ID :** 16768  
**Uniprot ID :** Q61790

### Description

Source: Human Cells.  
MW :46.2kD.

Recombinant Mouse LAG-3 is produced by our Mammalian expression system and the target gene encoding Ser23-Leu442 is expressed with a 6His tag at the C-terminus. Lymphocyte-activation gene 3 (LAG3), also known as CD223, is a type I transmembrane protein with four extracellular Ig-like domains, designated D1 to D4 and belongs to the immunoglobulin superfamily. The gene for LAG3 lies adjacent to the gene for CD4 on human chromosome 12p13.32 and shares approximately 20% identical to the CD4 gene. LAG3 is expressed on activated T cells, natural killer cells, B cells and plasmacytoid dendritic cells. LAG3 binds with high affinity to MHC class II molecules, and it interferes competitively with the binding of CD4 to MHC class II and thereby blocks the transduction of stimulatory signals mediated by this interaction. LAG3 negatively regulates cellular proliferation, activation, and homeostasis of T cells, and plays an important role in Treg suppressive function. LAG3 is the target of various drug development programs to develop new treatments for cancer and autoimmune disorders. The soluble form, sLAG-3, is being developed as a cancer drug.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** SGPGKELPVVWAQEGAPVHLPCSLKSPNLDPNFLRRGGVIWQHQPDSGQPTPIPALDLHQGMPSRQPAPGR  
YTVLSVAPGGLRSGRQPLPHVQLEERGLQRGDFSLWLRPALRTDAGEYHATVRLPNRALSCSLRLRVGQAS  
MIASPSGVLKLSDWVLLNCSFSRDRPVSVHWFQGQNRVPVYNSPRHFLAETFULLPQVSPLDSGTWGCVLTY  
RDGFNVSITYNLKVLGLEPVAPLTVYAAEGSRVELPCHLPPGVGTPSLLIAKWTPPGGGPELPVAGKSGNFTLHL  
EAVGLAQAGTYTCSIHLQGGQLNATVTLAVITVTPKSFGLPGSRGKLLCEVTPASGKERFVWRPLNNSLRSCPG  
PVLEIQEARLLAERWQCQLYEGQRLLGATVYAAESSGAHSARRISGDLKGGHLLLLHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.