Proteins



Product Data Sheet

LAG-3 Protein, Mouse (419a.a, HEK293, His)

Cat. No.: HY-P78720

Synonyms: Lymphocyte activation gene 3 protein; LAG3; LAG-3; Protein FDC; CD223

Species: Source: HEK293

Accession: Q61790 (G24-L442)

Gene ID: 16768 Molecular Weight: 53-80 kDa

PROPERTIES

Q G H	P G K E L P V V W H Q P D S G Q P T L R S G R Q P L H A T V R L P N R A C S F S R P D R P	A Q E G A P V H L P P I P A L D L H Q G P H V Q L E E R G L L S C S L R L R V G	C S L K S P N L D P M P S P R Q P A P G Q R G D F S L W L R	N F L R R G G V I W R Y T V L S V A P G P A L R T D A G E Y
Q G H	H Q P D S G Q P T L R S G R Q P L H A T V R L P N R A	P I P A L D L H Q G P H V Q L E E R G L L S C S L R L R V G	M P S P R Q P A P G Q R G D F S L W L R	RYTVLSVAPG
G H	L R S G R Q P L H A T V R L P N R A	P H V Q L E E R G L L S C S L R L R V G	QRGDFSLWLR	
Н	ATVRLPNRA	LSCSLRLRVG	-	
			QASMIASPSG	VLKLSDWVLL
IN		VSVHWFQGQN	RVPVYNSPRH	FLAETFLLLP
	VSPLDSGTW	GCVLTYRDGF	NVSITYNLKV	LGLEPVAPLT
	YAAEGSRVE	LPCHLPPGVG	TPSLLIAKWT	PPGGGPELPV
A	GKSGNFTLH	LEAVGLAQAG	TYTCSIHLQG	QQLNATVTLA
V	ITVTPKSFG	LPGSRGKLLC	EVTPASGKER	FVWRPLNNLS
R	SCPGPVLEI	QEARLLAERW	QCQLYEGQRL	LGATVYAAES
S	SGAHSARRI	SGDLKGGHL		
0.5	1.Immobilized Mouse LAG-3, His Tag at 5 μ g/mL (100 μ L/well) can bind Biotinylated Mouse FGL1. The ED ₅₀ for this effect is 0.5983 μ g/mL. 2.Immobilized Mouse LAG3 at 5 μ g/mL can bind Human FGL1. The EC ₅₀ is 309.8-461.1 μ g/mL.			
Appearance Ly	Lyophilized powder.			
	Lyophilized a 0.22 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4 or 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0 or PBS, pH 7.4.			
Endotoxin Level <1	<1 EU/μg, determined by LAL method.			
Reconsititution It i	It is not recommended to reconstitute to a concentration less than 100 $\mu g/mL$ in ddH ₂ O.			
	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.			
Shipping Ro	Room temperature in continental US; may vary elsewhere.			

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DESCRIPTION

Background

LAG-3 (Lymphocyte activation gene 3) protein is an inhibitory receptor expressed on antigen-activated T-cells, delivering inhibitory signals upon binding to ligands such as FGL1. Serving as a major ligand of LAG3, FGL1 is responsible for LAG3's T-cell inhibitory function. Following T-cell receptor (TCR) engagement, LAG3 associates with CD3-TCR in the immunological synapse, directly inhibiting T-cell activation. LAG3 may synergistically inhibit antigen-specific T-cell activation with PDCD1/PD-1, possibly acting as a coreceptor for PD-1. It negatively regulates the proliferation, activation, effector function, and homeostasis of both CD8(+) and CD4(+) T-cells. Constitutively expressed on a subset of regulatory T-cells (Tregs), LAG3 contributes to their suppressive function, mediating immune tolerance. Additionally, LAG3 acts as a negative regulator of plasmacytoid dendritic cell (pDCs) activation and binds to MHC class II (MHC-II), possibly functioning as a ligand for MHC-II on antigen-presenting cells, thereby promoting APC activation/maturation and driving Th1 immune responses.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA

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