

LAG-3 Protein, Mouse (HEK293, Fc)

Cat. No.:	HY-P73843
Synonyms:	Lymphocyte activation gene 3 protein; Protein FDC; CD223
Species:	Mouse
Source:	HEK293
Accession:	Q61790/NP_032505.1 (S23-L442)
Gene ID:	16768
Molecular Weight:	Approximately 82-96 kDa

PROPERTIES

AA Sequence	<p> S G P G K E L P V V W A Q E G A P V H L P C S L K S P N L D P N F L R R G G V I W Q H Q P D S G Q P T P I P A L D L H Q G M P S P R Q P A P G R Y T V L S V A P G G L R S G R Q P L H P H V Q L E E R G L Q R G D F S L W L R P A L R T D A G E Y H A T V R L P N R A L S C S L R L R V G Q A S M I A S P S G V L K L S D W V L L N C S F S R P D R P V S V H W F Q G Q N R V P V Y N S P R H F L A E T F L L L P Q V S P L D S G T W G C V L T Y R D G F N V S I T Y N L K V L G L E P V A P L T V Y A A E G S R V E L P C H L P P G V G T P S L L I A K W T P P G G G P E L P V A G K S G N F T L H L E A V G L A Q A G T Y T C S I H L Q G Q Q L N A T V T L A V I T V T P K S F G L P G S R G K L L C E V T P A S G K E R F V W R P L N N L S R S C P G P V L E I Q E A R L L A E R W Q C Q L Y E G Q R L L G A T V Y A A E S S S G A H S A R R I S G D L K G G H L </p>
Biological Activity	<p>1. Measured by its ability to bind FGL1 Protein, Mouse, Recombinant (His Tag) in functional ELISA.</p> <p>2. Immobilized Mouse LAG-3, His Tag at 5 µg/mL (100 µL/well) can bind Mouse FGL1. The ED₅₀ for this effect is 0.1192 µg/mL, corresponding to a specific activity is 8.39×10³ Unit/mg.</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4 (Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.) or 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
Storage & Stability	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	Room temperature in continental US; may vary elsewhere.

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