Proteins



LAG-3 Protein, Human (HEK293, mFc)

Cat. No.: HY-P70735

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

Species: Source: HEK293

P18627 (L23-L450) Accession:

Gene ID: 3902

Molecular Weight: Approximately 90.0 kDa

PROPERTIES

AA Sequence	LQPGAEVPVV WAQEGAPAQL PCSPTIPLQD LSLLRRAGVT WQHQPDSGPP AAAPGHPLAP GPHPAAPSSW GPRPRRYTVL SVGPGGLRSG RLPLQPRVQL DERGRQRGDF SLWLRPARRA DAGEYRAAVH LRDRALSCRL RLRLGQASMT ASPPGSLRAS DWVILNCSFS RPDRPASVHW FRNRGQGRVP VRESPHHHLA ESFLFLPQVS PMDSGPWGCI LTYRDGFNVS IMYNLTVLGL EPPTPLTVYA GAGSRVGLPC RLPAGVGTRS FLTAKWTPPG
	GGPDLLVTGD NGDFTLRLED VSQAQAGTYT CHIHLQEQQL NATVTLAIIT VTPKSFGSPG SLGKLLCEVT PVSGQERFVW SSLDTPSQRS FSGPWLEAQE AQLLSQPWQC QLYQGERLLG AAVYFTELSS PGAQRSGRAP GALPAGHL
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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, an inhibitory receptor present on antigen-activated T-cells, plays a crucial

Page 1 of 2

role in immune regulation. Upon binding to its major ligand, FGL1, LAG-3 delivers inhibitory signals that negatively regulate the proliferation, activation, effector function, and homeostasis of both CD8(+) and CD4(+) T-cells. Acting in synergy with PDCD1/PD-1, LAG-3 may inhibit antigen-specific T-cell activation, particularly following T-cell receptor (TCR) engagement where it associates with CD3-TCR in the immunological synapse. Beyond its role in T-cell inhibition, LAG-3 is constitutively expressed on a subset of regulatory T-cells (Tregs), contributing to their suppressive function and mediating immune tolerance. Additionally, LAG-3 negatively regulates plasmacytoid dendritic cell (pDCs) activation and, intriguingly, interacts with MHC class II (MHC-II), potentially acting as both a ligand for MHC-II on antigen-presenting cells (APC) and a promoter of APC activation/maturation, thereby influencing Th1 immune response.

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

Page 2 of 2 www.MedChemExpress.com