

Product Data Sheet

LAG-3 Protein, Human (Biotinylated, HEK293, His-Avi)

Cat. No.:	HY-P72389		
Synonyms:	Lymphocyte activation gene 3 protein; Protein FDC; CD223		
Species:	Human		
Source:	HEK293		
Accession:	P18627 (L23-L450)		
Gene ID:	3902		
Molecular Weight:	60-70 kDa		

PROPERTIES

AA Sequence						
/ stocquence	LQPLWVAPVK	PLQPGAEVPV	VWAQEGAPAQ	LPCSPTIPLQ		
	DLSLLRRAGV	TWQHQPDSGP	PAAAPGHPLA	РБРНРААРЅЅ		
	WGPRPRRYTV	LSVGPGGLRS	GRLPLQPRVQ	LDERGRQRGD		
	FSLWLRPARR	ADAGEYRAAV	HLRDRALSCR	LRLRLGQASM		
	TASPPGSLRA	SDWVILNCSF	SRPDRPASVH	WFRNRGQGRV		
	P V R E S P H H H L	AESFLFLPQV	SPMDSGPWGC	ILTYRDGFNV		
	SIMYNLTVLG	LEPPTPLTVY	AGAGSRVGLP	CRLPAGVGTR		
	SFLTAKWTPP	GGGPDLLVTG	DNGDFTLRLE	D V S Q A Q A G T Y		
	ΤϹΗΙΗLQEQQ	LNATVTLAII	Т V Т Р К Ѕ F Ⴚ Ѕ P	G S L G K L L C E V		
	T P V S G Q E R F V	WSSLDTPSQR	SFSGPWLEAQ	EAQLLSQPWQ		
	CQLYQGERLL	GAAVYFTELS	SPGAQRSGRA	PGALPAGHL		
Appearance	Lyophilized powder.					
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.					
Endotoxin Level	<1 EU/ μ g, determined by LAL method.					
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/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). I 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

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.

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