LILRA4/ILT-7/CD85g Protein, Human (HEK293, His-Avi)

Cat. No.:	HY-P78480
Synonyms:	CD85g; ILT7; ILT-7; ILT7MGC129598; LILRA4; MGC129597
Species:	Human
Source:	HEK293
Accession:	P59901 (E24-N446)
Gene ID:	23547
Molecular Weight:	60-75 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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	LILRA4/ILT-7/CD85g protein functions as a coreceptor, exerting a pivotal role in limiting innate immune responses during viral infections, with signaling occurring through FCER1G. It acts as a negative regulator of TLR7 and TLR9 signaling cascades, demonstrated by its ability to down-regulate the production of IFNA1, IFNA2, IFNA4, IFNB1, and TNF in plasmacytoid dendritic cells exposed to influenza virus or CpG dinucleotides. Additionally, LILRA4/ILT-7/CD85g negatively modulates interferon production in response to interaction with BST2 on HIV-1 infected cells. The protein activates a signaling cascade in conjunction with FCER1G, leading to the phosphorylation of Src family and Syk kinases and subsequent mobilization of intracellular Ca(2+). Notably, LILRA4/ILT-7/CD85g does not interfere with the differentiation of plasmacytoid dendritic cells into antigen-presenting cells. The interaction between LILRA4/ILT-7/CD85g and FCER1G stabilizes the expression of both proteins at the cell membrane, emphasizing its crucial regulatory role in the innate immune response to viral pathogens.

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

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