Cynomolgus LILRA4/CD85g Protein

Cat. No. LIL-CM1A4

Description

Source	Recombinant Cynomolgus LILRA4/CD85g Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Glu24-Asn446.
Accession	XP_005590346.1
Molecular Weight	The protein has a predicted MW of 47.7 kDa. Due to glycosylation, the protein migrates to 58-68 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

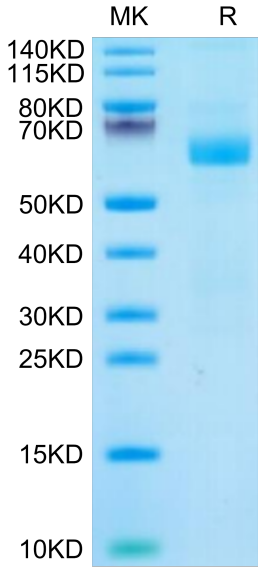
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

LILRA4, also known as ILT7 and CD85g, is an approximately 60-70 kDa variably glycosylated transmembrane protein that regulates immune cell activation. Mature human LILRA4 consists of a 423 amino acid (aa) extracellular domain (ECD) with four immunoglobulin-like domains, a 21 aa transmembrane segment, and a 32 aa cytoplasmic domain.LILRA4 function coreceptor to limit the innate immune responses to viral infections; signaling occurs via FCER1G (PubMed:16735691, PubMed:19564354). Down-regulates the production of IFNA1, IFNA2, IFNA4, IFNB1 and TNF by plasmacytoid dendritic cells that have been exposed to influenza virus or cytidine-phosphate-guanosine (CpG) dinucleotides, indicating it functions as negative regulator of TLR7 and TLR9 signaling cascades.

Assay Data

Bis-Tris PAGE



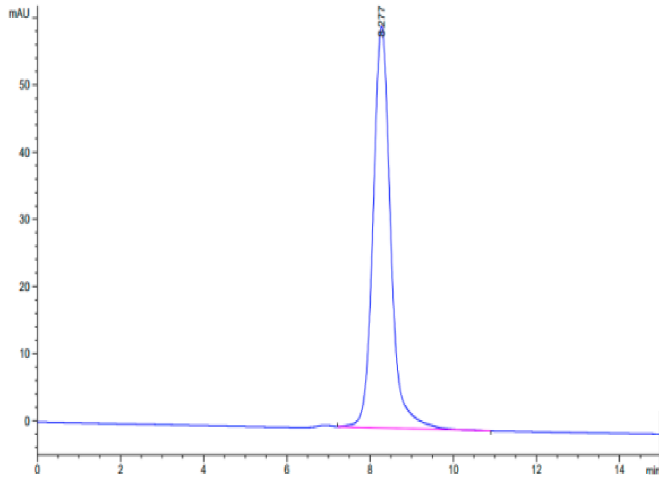
Cynomolgus LILRA4 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

Cynomolgus LILRA4/CD85g Protein

Cat. No. LIL-CM1A4

Assay Data



The purity of Cynomolgus LILRA4 is greater than 95% as determined by SEC-HPLC.