

Recombinant Cynomolgus LILRA4/ILT-7/CD85g Protein

Catalog No.: RP02681 **Recombinant**

Sequence Information

Species Cynomolgus **Gene ID** XP_00559034 **Swiss Prot** 6.1

Tags

C-His

Synonyms

CD85g; ILT7; ILT-7; ILT7MGC129598; LILRA4; MGC129597

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.

Product Information

Source HEK293 cells **Purification** $\geq 95\%$ as determined by Tris-Bis PAGE; $\geq 95\%$ as determined by HPLC.

Calculated MW 47.7 kDa **Observed MW** 58-68 kDa

Endotoxin

< 1 EU/ μ g of the protein by LAL method.

Formulation

Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze/thaw cycles.

Basic Information

Description

Recombinant Cynomolgus LILRA4/ILT-7/CD85g Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Glu24-Asn446) of Cynomolgus LILRA4/ILT-7/CD85g (Accession #) fused with His tag at the C-terminal.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

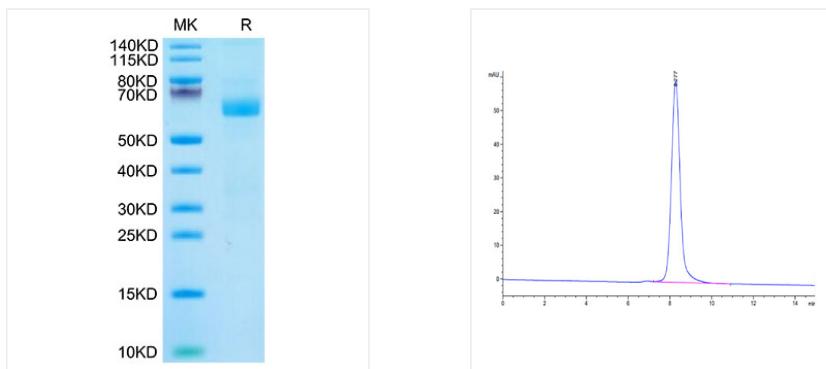
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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Validation Data



Recombinant Cynomolgus LILRA4/ILT-7/CD85g Protein was determined by Tris-Bis PAGE under reducing conditions.

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