

Recombinant Human LILRA4/ILT-7/CD85g Protein

Catalog No.: RP02708 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	23547	P59901

Tags

C-His&Avi

Synonyms

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

Product Information

Source	Purification
HEK293 cells	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Calculated MW	Observed MW
49.5 kDa	60-75 kDa

Endotoxin

Less than 1EU per µg by the 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 free-thaw cycles.

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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.

Basic Information

Description

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

Bio-Activity

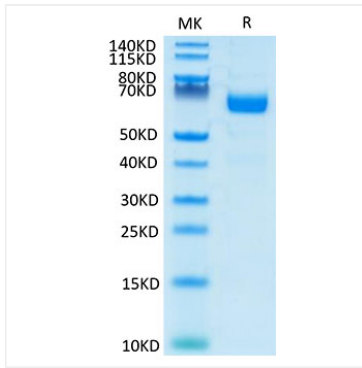
Storage

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

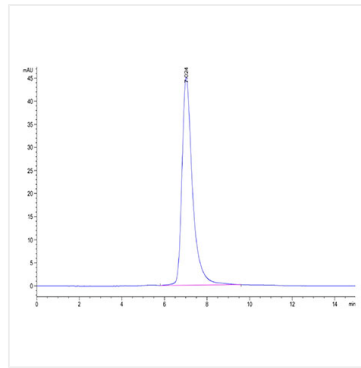
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



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



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