

Recombinant Rhesus macaque LILRB1/ILT-2/CD85j Protein

Catalog No.: RP02631 Recombinant

Sequence Information

Species Gene ID Swiss ProtRhesus 692340 F7H3G7
macaque

Tags C-His

Synonyms

ILT2; ILT-2; ILT2FLJ37515; LILRB1; LIR1; MIR7; CD85J; XXbac-BCX85G21.4

Product Information

Source Purification HEK293 cells ≥ 95 % as

determined by Tris-Bis PAGE;≥ 95 % as determined by

HPLC.

Calculated MW Observed MW

48.5 kDa 60-70 kDa

Endotoxin

< 1 EU/ μg 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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

LILRB1, also known as CD85j and ILT2, is a 110 kDa transmembrane glycoprotein in the LILR immunoregulatory protein family. Mature human LILRB1 consists of a 438 amino acid (aa) extracellular domain (ECD) with 4 tandem Ig-like domains, a 21 aa transmembrane segment, and a 168 aa cytoplasmic domain with 4 inhibitory ITIM motifs.LILRB1 is a receptor for class I MHC antigens. Recognizes a broad spectrum of HLA-A, HLA-B, HLA-C, HLA-G and HLA-F alleles. Receptor for H301/UL18, a human cytomegalovirus class I MHC homolog. Ligand binding results in inhibitory signals and down-regulation of the immune response.

Basic Information

Description

Recombinant Rhesus macaque LILRB1/ILT-2/CD85j Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ser17-His456) of rhesus macaque LILRB1/ILT-2/CD85j (Accession #F7H3G7) fused with His tag at the C-terminus.

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.

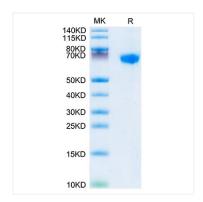
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

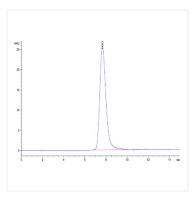
Operational Notes

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

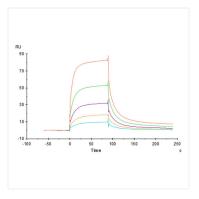
Validation Data



Recombinant Rhesus macaque LILRB1/ILT-2/CD85j Protein was determined by Tris-Bis PAGE under reducing conditions.



The purity of Rhesus macaque LILRB1/CD85j/ILT2 is greater than 95% as determined by SEC-HPLC.



Anti-LILRB1 Antibody, hFc Tag captured on CM5 Chip via Protein A can bind Rhesus macaque LILRB1, His Tag with an affinity constant of 215.30 nM as determined in SPR assay (Biacore T200).