

# Recombinant Human LILRB1/ILT-2/CD85j Protein

Catalog No.: RP01331 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	10859	Q8NHL6

### Tags

C-His

### Synonyms

LILRB1;CD85j;ILT-2;ILT2;LIR-1;LIR1;MIR-7  
;MIR7;PIR-B;PIRB

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

### Endotoxin

&lt; 0.1 EU/μg of the protein by LAL method.

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

### Reconstitution

Centrifuge the vial 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.

## Background

CD85 antigen-like family member J (CD85J) is also known as Leukocyte immunoglobulin-like receptor subfamily B member 1 (LILRB1 or LIR-1), Immunoglobulin-like transcript 2 (ILT-2), Monocyte/macrophage immunoglobulin-like receptor 7 (MIR7), which belongs to leukocyte immunoglobulin-like receptor (LIR) family. CD85J / LILRB1 Contains 4 Ig-like C2-type (immunoglobulin-like) domains. CD85J / LIR-1 is expressed predominantly on B-cells and monocytes. CD85J is receptor for class I MHC antigens and recognizes a broad spectrum of HLA-A, HLA-B, HLA-C and HLA-G alleles and is also receptor for H301/UL18, a human cytomegalovirus class I MHC homolog. Ligand binding results in inhibitory signals and down-regulation of the immune response. CD85J / LILRB1 interaction with HLA-B or HLA-E leads to inhibition of the signal triggered by FCER1A and inhibits serotonin release. CD85J / LILRB1 inhibits FCGR1A-mediated phosphorylation of cellular proteins and mobilization of intracellular calcium ions.

## Basic Information

### Description

Recombinant Human LILRB1/ILT-2/CD85j Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly24-His458) of Human LILRB1 (Accession #NP\_006660.4) fused with an 6xHis tag at the C-terminus.

### 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.

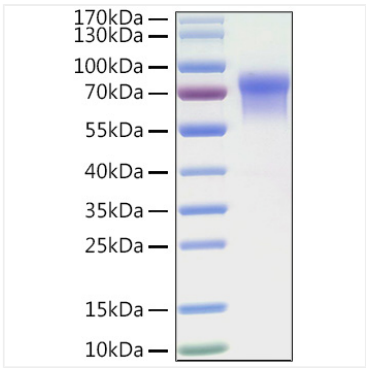
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

## Contact

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Validation Data



Recombinant Human LILRB1/ILT-2/CD85j  
Protein was determined by SDS-PAGE with  
Coomassie Blue, showing a band at  
65-80kDa.