

## LILRB1/CD85j/ILT2 Protein, Human, Recombinant (His &amp; Avi), Biotinylated

## General Information

Synonyms:	CD85j;MIR-7;MIR7;leukocyte immunoglobulin like receptor B1;LIR1;XXbac-BCX85G21.4;LIR-1;ILT2;ILT-2
Protein Construction:	A DNA sequence encoding the Human LILRB1 (ADJ55949.1) (Met1-His458) was expressed with a C-terminal polyhistidine tag followed by an AVI tag. The expressed protein was biotinylated in vivo by the Biotin-Protein ligase (BirA enzyme) which is co-expressed. Predicted N terminal: Gly 24
Species:	Human
Expression Host:	HEK293 Cells
Accession:	ADJ55949.1
Molecular Weight:	50.47 kDa (predicted); 75.5 kDa (reducing conditions)

## QC Testing

Biological Activity:	Immobilized anti-LILRB1, Human IgG4 at 2 µg/mL (100 µL/well) can bind Recombinant Human LILRB1 Protein (His & Avi Tag), Biotinylated (Cat#TMPY-06895), the EC50 is 1.2-3.6 ng/mL.
Purity:	≥ 95 % as determined by SDS-PAGE. ≥ 95 % as determined by SEC-HPLC.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

## Preparation and Storage

Reconstitution:	A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.
Stability & Storage:	It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

## Protein Background

LILRB1 (Leukocyte Immunoglobulin Like Receptor B1) is a Protein Coding gene. The encoded protein belongs to the

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subfamily B class of LIR receptors which contain two or four extracellular immunoglobulin domains, a transmembrane domain, and two to four cytoplasmic immunoreceptor tyrosine-based inhibitory motifs (ITIMs). LILRB1 is encoded within the leukocyte receptor complex on 19q13.4, previously implicated to be a susceptibility region to systemic lupus erythematosus (SLE). LILRB1 binds to a wide range of Major Histocompatibility Complex Class I molecules (MHCI) and transduces negative signals that can, for example, prevent the killing of MHCI-expressing cells. LILRB1 transcription is correlated with surface protein expression on NK cells. Diseases associated with LILRB1 include Alzheimer's Disease 12 and Severe Pre-Eclampsia.

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