

LILRB1/CD85j/ILT2 Protein, Human, Recombinant (His)

General Information

Synonyms:	ILT-2;leukocyte immunoglobulin like receptor B1;CD85j;MIR-7;LIR-1;XXbac-BCX85G21.4;LIR1;ILT2;MIR7
Protein Construction:	A DNA sequence encoding the human LILRB1 (ADJ55949.1) (Met1-His458) was expressed with a C-terminal polyhistidine tag. Predicted N terminal: Gly 24
Species:	Human
Expression Host:	HEK293 Cells
Accession:	D9IDM8
Molecular Weight:	48.6 kDa (predicted); 61-68 kDa (reducing condition, due to glycosylation)

QC Testing

Biological Activity:	1.Loaded Monoclonal anti-human LILRB1 Antibody, human IgG4 on ProA Biosensor, can bind Recombinant Human ILT2/LILRB1 Protein, His Tag (Cat#TMPY-03995) with an affinity constant of 9.53 nM as determined in BLI assay (Sartorius Octet RED384) (Routinely tested). 2. Immobilized anti-LILRB1, Human IgG4 at 2 µg/mL (100 µL/well) can bind Recombinant Human LILRB1/CD85/ILT2/ILR1 Protein (His Tag) (Cat#TMPY-03995), the EC50 is 2.5-7.5 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:	Reconstituted with sterile deionized water to 0.25 mg/mL. Reconstitution conditions may vary depending on the lot.
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 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 (MHCIs) and transduces negative signals that can, for example, prevent the killing of MHC1-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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