

Synonym

CD85J,LILRB1,CD85,ILT2,LIR1,MIR7

Source

Human LILRB1, Fc Tag(CDJ-H5252) is expressed from human 293 cells (HEK293). It contains AA Gly 24 - His 458 (Accession # [D9IDM8-1](#)).
Predicted N-terminus: Gly 24

Molecular Characterization

LILRB1(Gly 24 - His 458) D9IDM8-1	Fc(Pro 100 - Lys 330) P01857
--------------------------------------	---------------------------------

This protein carries a human IgG1 Fc tag at the C-terminus.
The protein has a calculated MW of 73.8 kDa. The protein migrates as 90-105 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>92% as determined by SDS-PAGE.
>95% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, pH7.5 with trehalose as protectant.
Contact us for customized product form or formulation.

Reconstitution

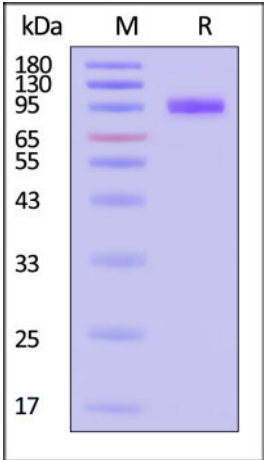
Please see Certificate of Analysis for specific instructions.
For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.
Please avoid repeated freeze-thaw cycles.
This product is stable after storage at:

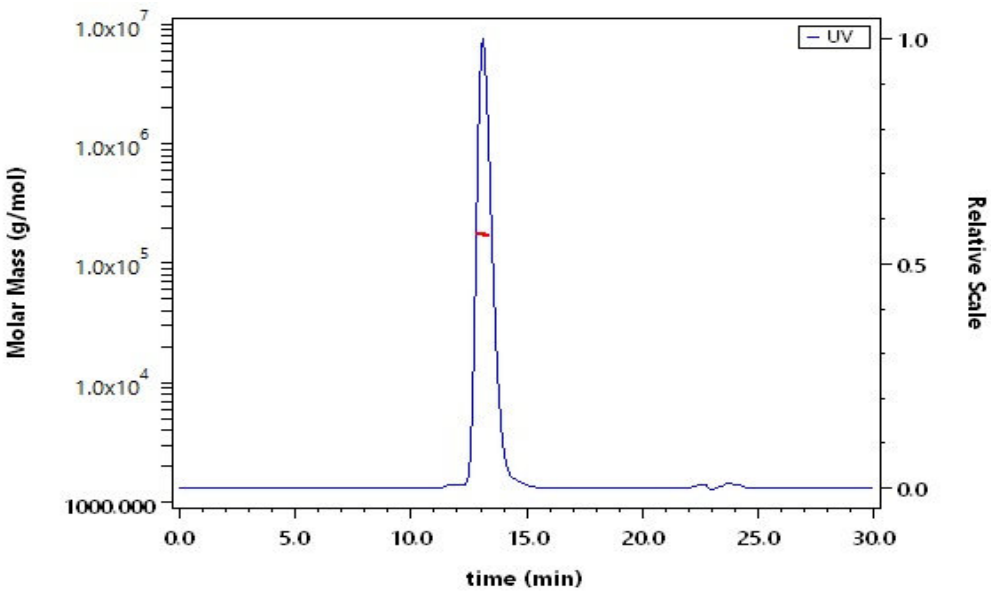
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human LILRB1, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 92% (With [Star Ribbon Pre-stained Protein Marker](#)).

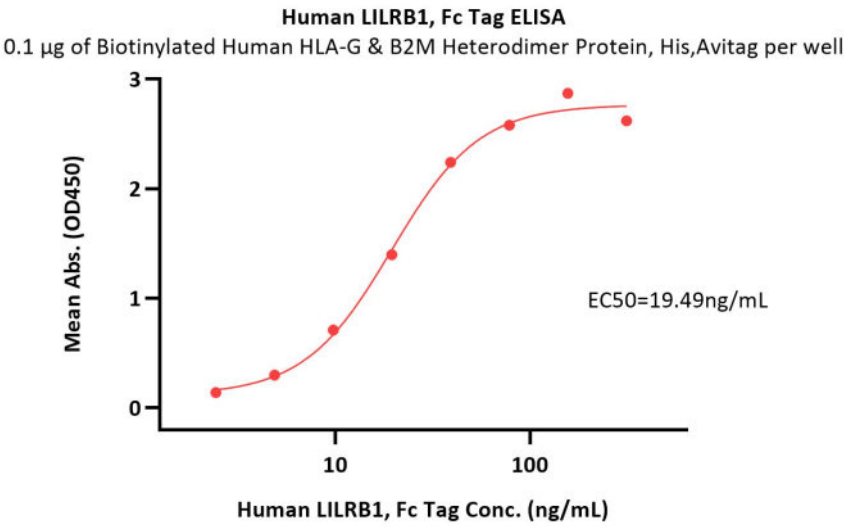
SEC-MALS



The purity of Human LILRB1, Fc Tag (Cat. No. CDJ-H5252) is more than 95% and the molecular weight of this protein is around 150-185 kDa verified by SEC-MALS.
[Report](#)

Bioactivity-ELISA





Immobilized Biotinylated Human HLA-G & B2M Heterodimer Protein, His,Avitag (Cat. No. HLM-H82E4) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Human LILRB1, Fc Tag (Cat. No. CDJ-H5252) with a linear range of 2-39 ng/mL (Routinely tested).

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.

