Human LILRB1 / CD85j / ILT2 Protein, Fc Tag (MALS verified)

Catalog # CDJ-H5252

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 under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL 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

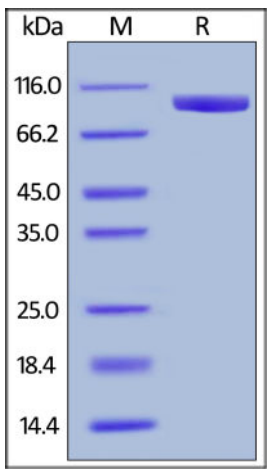
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

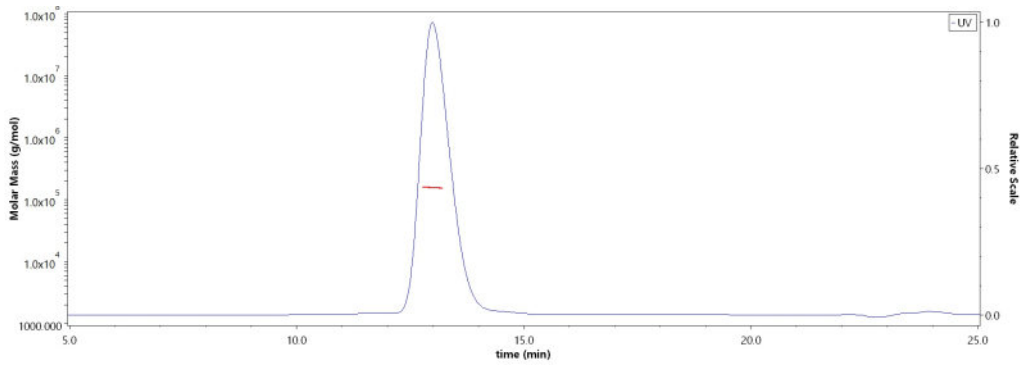
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



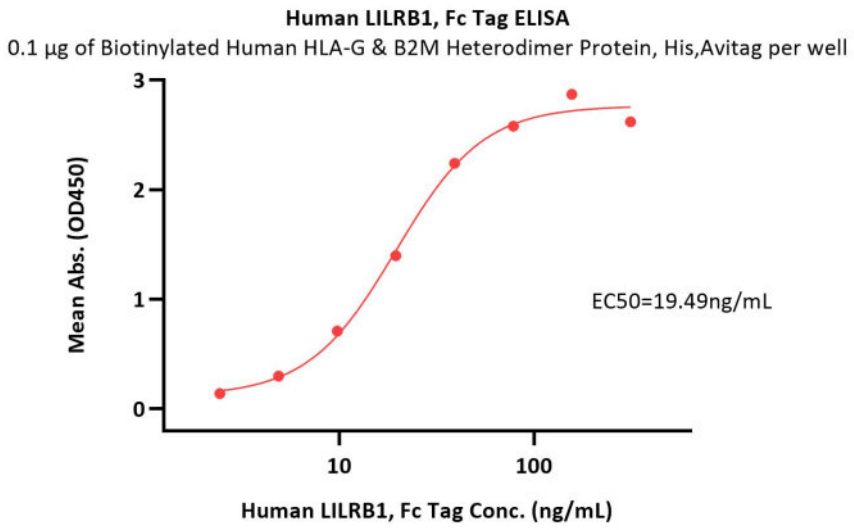
Human LILRB1, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 92%.

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

This gene is a member of the leukocyte immunoglobulin-like receptor (LIR) family, which is found in a gene cluster at chromosomal region 19q13.4. 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). The receptor is expressed on immune cells where it binds to MHC class I molecules on antigen-presenting cells and transduces a negative signal that inhibits stimulation of an immune response. It is thought to control inflammatory responses and cytotoxicity to help focus the immune response and limit autoreactivity. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.