

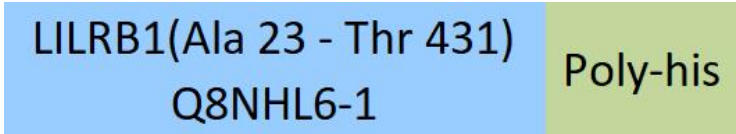
Synonym

CD85J,LILRB1,CD85,ILT2,LIR1,MIR7

Source

Human LILRB1 (23-431) Protein, His Tag(CDJ-H52H6) is expressed from human 293 cells (HEK293). It contains AA Ala 23 - Thr 431 (Accession # [Q8NHL6-1](#)).

Predicted N-terminus: Ala 23

Molecular Characterization


This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 46.5 kDa. The protein migrates as 58-63 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 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.

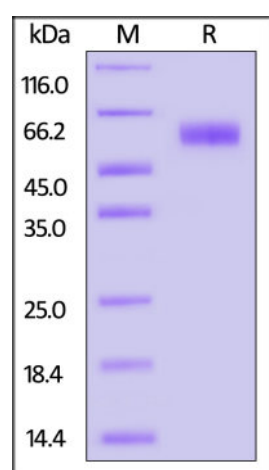
Storage

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

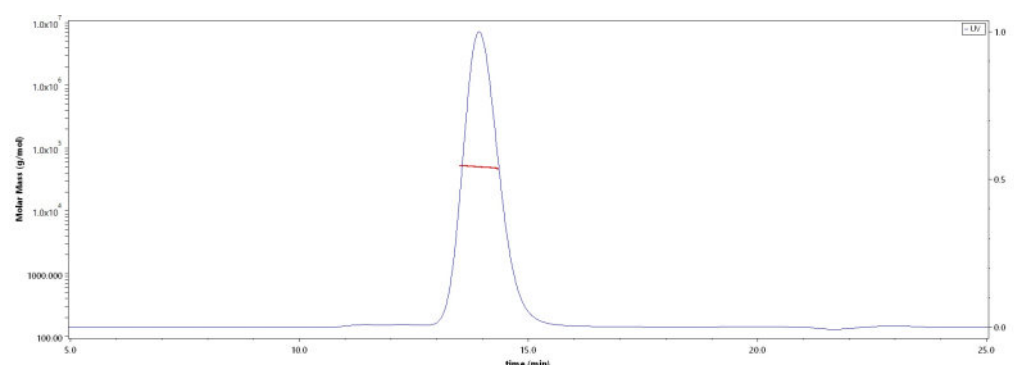
Please avoid repeated freeze-thaw cycles.

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.

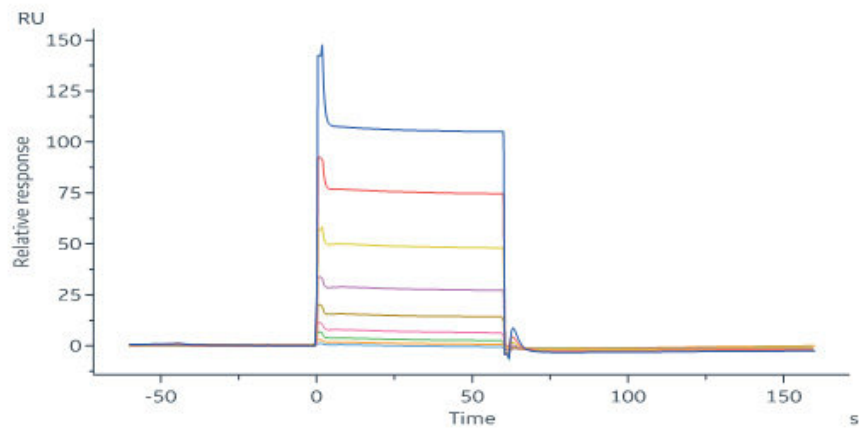
SDS-PAGE

Human LILRB1 (23-431) Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-SPR**SEC-MALS**

The purity of Human LILRB1 (23-431) Protein, His Tag (Cat. No. CDJ-H52H6) is more than 95% and the molecular weight of this protein is around 45-55 kDa verified by SEC-MALS.

[Report](#)



Biotinylated Human HLA-G&B2M&Peptide (RIIPRHLQL) Complex Protein (Cat. No. HLM-H82E4) captured on Biotin CAP-Series S Sensor Chip can bind Human LILRB1 (23-431) Protein, His Tag (Cat. No. CDJ-H52H6) with an affinity constant of 6.31 μM as determined in a SPR assay (Biacore 8K) (Routinely tested).

Background

LILRB1 (Uniprot No. D9IDM8-1) is a variant that correlates with the low expression of LILRB1 on NK cells. It reflects the diversity of the LILRB1 locus and its influences on expression patterns on NK cells. LILRB1 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.

Clinical and Translational Updates

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