# Biotinylated Human LILRB4 / CD85k / ILT3 Protein, His,Avitag™ (MALS verified)

Catalog # LI4-H82E4

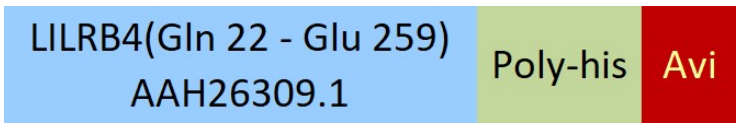
## Synonym

LILRB4,ILT3,LIR5,CD85K,HM18

## Source

Biotinylated Human LILRB4, His,Avitag (LI4-H82E4) is expressed from human 293 cells (HEK293). It contains AA Gln 22 - Glu 259 (Accession # AAH26309.1).
Predicted N-terminus: Gln 22

## Molecular Characterization




This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 29.8 kDa. The protein migrates as 32-40 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Biotinylation

***Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.***

## Biotin:Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

## Endotoxin

Less than 1.0 EU per μg by the LAL method.

## Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

## Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

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.***

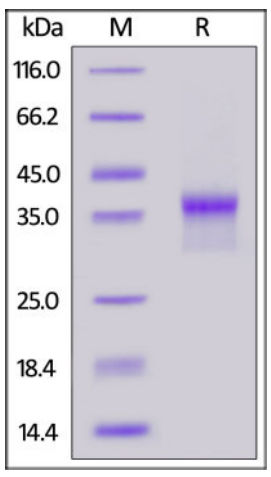
## Storage

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

***Please avoid repeated freeze-thaw cycles.***

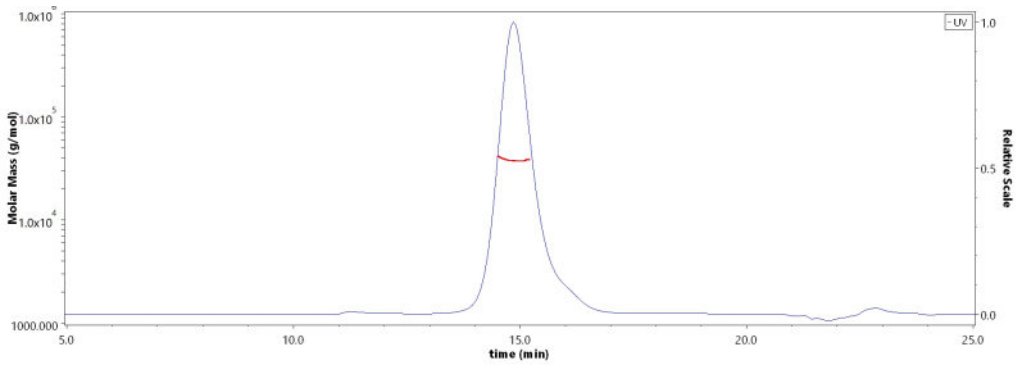
This product is stable after storage at:
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



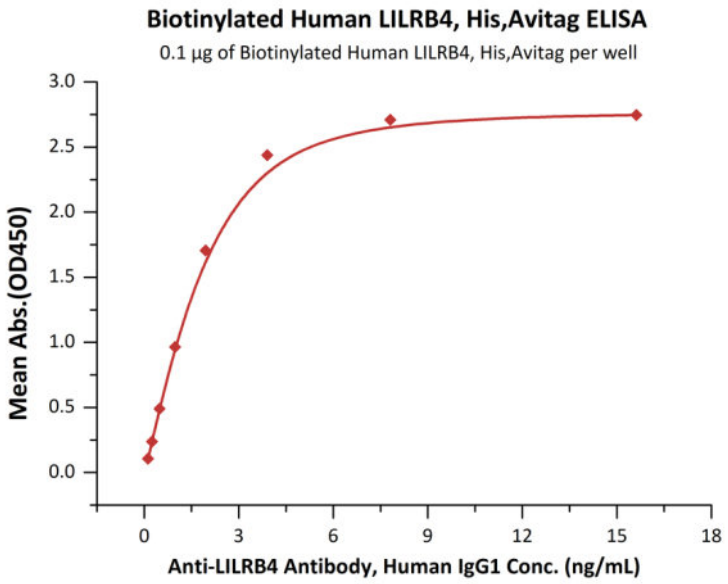

Biotinylated Human LILRB4, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

## SEC-MALS




The purity of Biotinylated Human LILRB4, His,Avitag (Cat. No. LI4-H82E4) is more than 90% and the molecular weight of this protein is around 30-40 kDa verified by SEC-MALS.
Report

## Bioactivity-ELISA




Immobilized Biotinylated Human LILRB4, His,Avitag (Cat. No. LI4-H82E4) at 1 μg/mL (100 μL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 μg/well) plate can bind Anti-LILRB4 Antibody, Human IgG1 with a linear range of 0.1-4 ng/mL (QC tested).

## Background

Leukocyte immunoglobulin-like receptor subfamily B member 4 (LILRB4) is also known as CD85 antigen-like family member K (CD85K), Immunoglobulin-like transcript 3 (ILT-3), Leukocyte immunoglobulin-like receptor 5 (LIR-5), Monocyte inhibitory receptor HM18, which belongs to the leukocyte immunoglobulin-like receptor (LIR) family. LILRB4 / CD85K contains 2 Ig-like C2-type (immunoglobulin-like) domains. CD85K is detected in monocytes, macrophages, dendritic cells, lung, natural killer cells and B-cells. LILRB4 / CD85K is receptor for class I MHC antigens. CD85K recognizes a broad spectrum of HLA-A, HLA-B, HLA-C and HLA-G alleles, involved in the down-regulation of the immune response and the development of tolerance. LILRB4 interferes with TNFRSF5-signaling and NF-kappa-B up-regulation and inhibits receptor-mediated phosphorylation of cellular proteins and mobilization of intracellular calcium ions.

## Clinical and Translational Updates

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