

**Synonym**

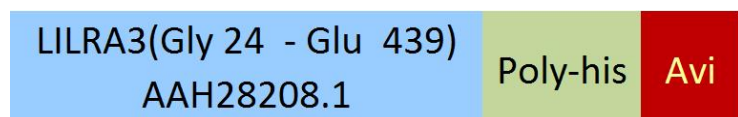
LILRA3,ILT6,LIR4,CD85e

**Source**

Biotinylated Human LILRA3, His,Avitag (LI3-H82E0) is expressed from human 293 cells (HEK293). It contains AA Gly 24 - Glu 439 (Accession # [AAH28208.1](#)).

Predicted N-terminus: Gly 24

**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 48.7 kDa. The protein migrates as 65-80 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**

>95% as determined by SDS-PAGE.

**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**

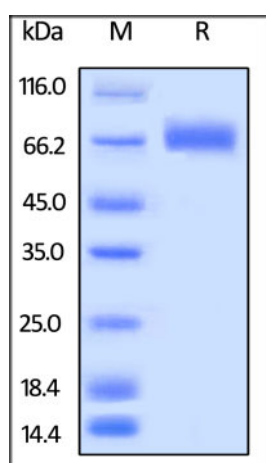
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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 LILRA3, 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 95%.

**Background**

Leukocyte immunoglobulin-like receptor subfamily A member 3 (LILRA3) is also known as CD85 antigen-like family member E (CD85e), immunoglobulin-like transcript 6 (ILT-6), and leukocyte immunoglobulin-like receptor 4 (LIR-4) is a protein that in humans is encoded by the LILRA3 gene located within the eukocyte

receptor complex on chromosome 19q13.4. Unlike many of its family, LILRA3 lacks a transmembrane domain, which contains 4 Ig-like C2-type (immunoglobulin-like) domains. LILRA3 acts as soluble receptor for class I MHC antigens. At the same time, LILRA3 can bind both classical and non-classical HLA class I molecules but with reduced affinities compared to LILRB1 or LILRB2. Also, LILRA3 can bind with high affinity to the surface of monocytes, leading to abolish LPS-induced TNF-alpha production by monocytes.

**Clinical and Translational Updates**

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.