Biotinylated Human LILRA1 / CD85i / LIR-6 Protein, His,Avitag™

Catalog # LI1-H82E8

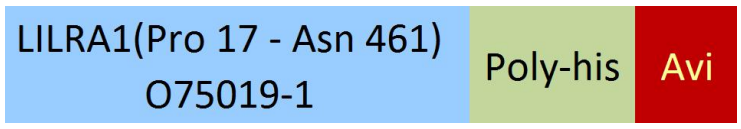
Synonym

LILRA1,LIR6,CD85i,LIR-6

Source

Biotinylated Human LILRA1, His,Avitag(LI1-H82E8) is expressed from human 293 cells (HEK293). It contains AA Pro 17 - Asn 461 (Accession # O75019-1). Predicted N-terminus: Pro 17

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 52.2 kDa. The protein migrates as 60-90 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Labeling

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

Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

Purity

>90% as determined by SDS-PAGE.

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

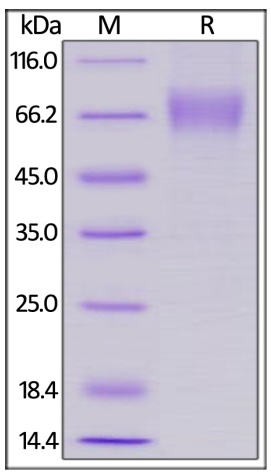
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

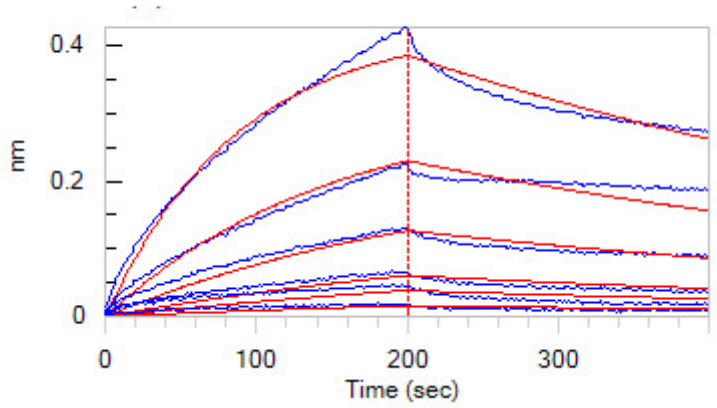
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Biotinylated Human LILRA1, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

Bioactivity-BLI



Loaded Biotinylated Human LILRA1, His,Avitag (Cat. No. LI1-H82E8) on SA Biosensor, can bind Human ANGPTL7, His Tag with an affinity constant of 0.204 μM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

Background

Leukocyte immunoglobulin-like receptors (LILRs) are inhibitory, stimulatory or soluble receptors encoded within the leukocyte receptor complex. Some LILRs are extensively polymorphic, and exhibit evidence for balancing selection and association with disease susceptibility. LILRA1 (LIR-6) can recognize MHC (major histocompatibility complex) class I or class I-like molecules, and high levels of sequence similarity among LILRA1, LILRA2 (ILT1), LILRA3 (ILT6) and LILRB1/B2.