Biotinylated Human LIV-1 / SLC39A6 Protein, Fc,Avitag™ (MALS verified)

Catalog # LV1-H82F5

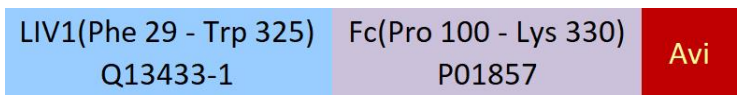
Synonym

SLC39A6,LIV-1,ZIP6,Zinc transporter ZIP6,ZIP-6

Source

Biotinylated Human LIV-1 Protein, Fc,Avitag(LV1-H82F5) is expressed from human 293 cells (HEK293). It contains AA Phe 29 - Trp 325 (Accession # Q13433-1).

Molecular Characterization



This protein carries a human IgG1 Fc tag at the C-terminus, followed by an Avi tag (Avitag™)

The protein has a calculated MW of 61.8 kDa. The protein migrates as 80-95 kDa when calibrated against Star Ribbon Pre-stained Protein Marker 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.

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 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM Nacl, 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

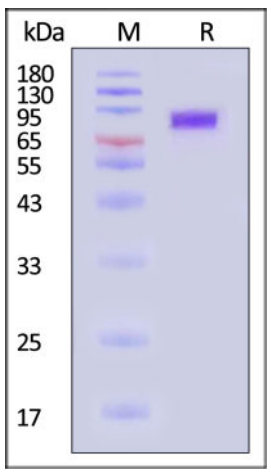
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

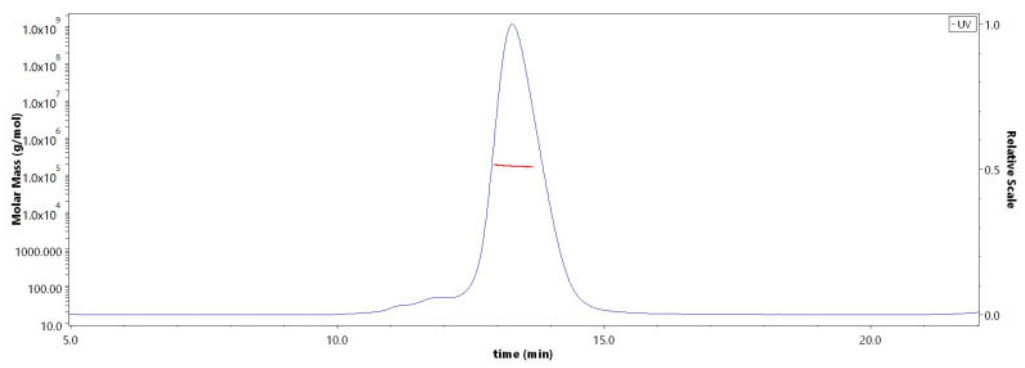
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



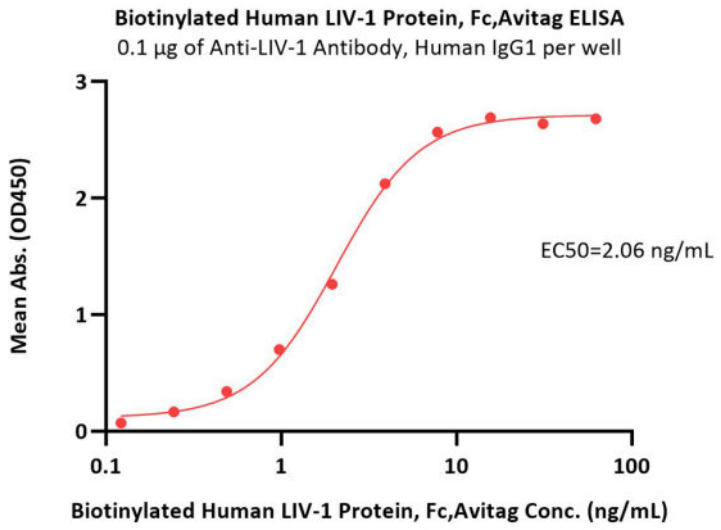
Biotinylated Human LIV-1 Protein, Fc,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With Star Ribbon Pre-stained Protein Marker).

SEC-MALS

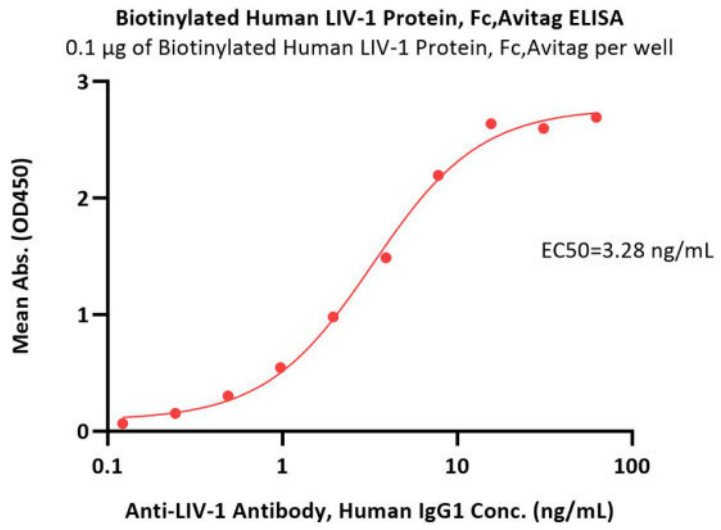


The purity of Biotinylated Human LIV-1 Protein, Fc,Avitag (Cat. No. LV1-H82F5) is more than 90% and the molecular weight of this protein is around 160-190 kDa verified by SEC-MALS.
Report

Bioactivity-ELISA



Immobilized Anti-LIV-1 Antibody, Human IgG1 at 1 μg/mL (100 μL/well) can bind Biotinylated Human LIV-1 Protein, Fc,Avitag (Cat. No. LV1-H82F5) with a linear range of 0.1-4 ng/mL (QC tested).



Immobilized Biotinylated Human LIV-1 Protein, Fc,Avitag (Cat. No. LV1-H82F5) at 1 μg/mL (100 μL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 μg/well) plate can bind Anti-LIV-1 Antibody, Human IgG1 with a linear range of 0.1-8 ng/mL (Routinely tested).

Background

LIV-1 is also known as SLC39A6, ZIP-6 and Zinc transporter ZIP6. May act as a zinc-influx transporter. Highly expressed in the breast, prostate, placenta, kidney, pituitary and corpus callosum. Weakly expressed in heart and intestine. Also highly expressed in cells derived from an adenocarcinoma of the cervix and lung carcinoma. Up-regulated by estrogen in breast cancer cells lines.

Clinical and Translational Updates

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