



Synonym

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

Source

Human LIV-1, His Tag(LV1-H5223) is expressed from human 293 cells (HEK293). It contains AA Phe 29 - Trp 325 (Accession # [Q13433-1](#)).

Predicted N-terminus: Phe 29

Molecular Characterization

LIV1(Phe 29 - Trp 325)
Q13433-1 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 35.5 kDa. The protein migrates as 50-65 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

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

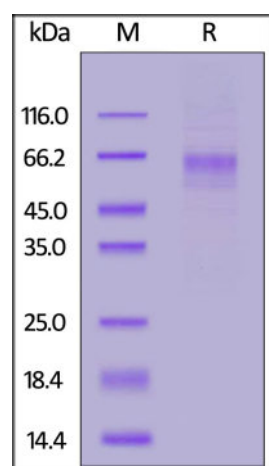
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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

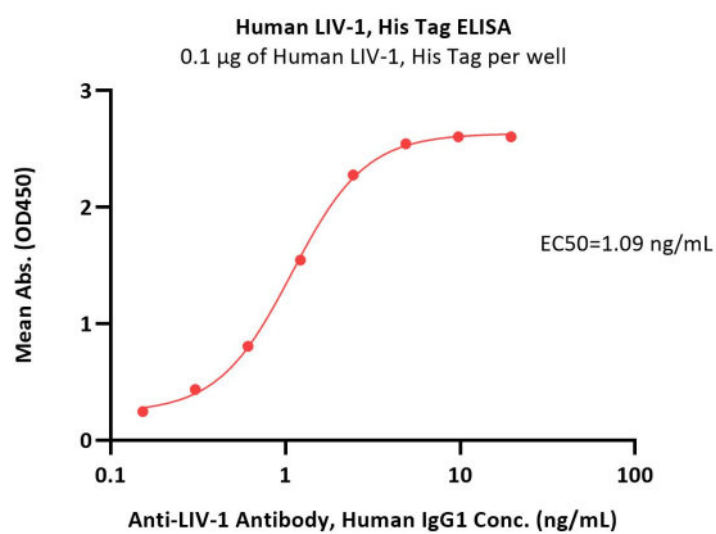


Human LIV-1, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

Bioactivity-ELISA

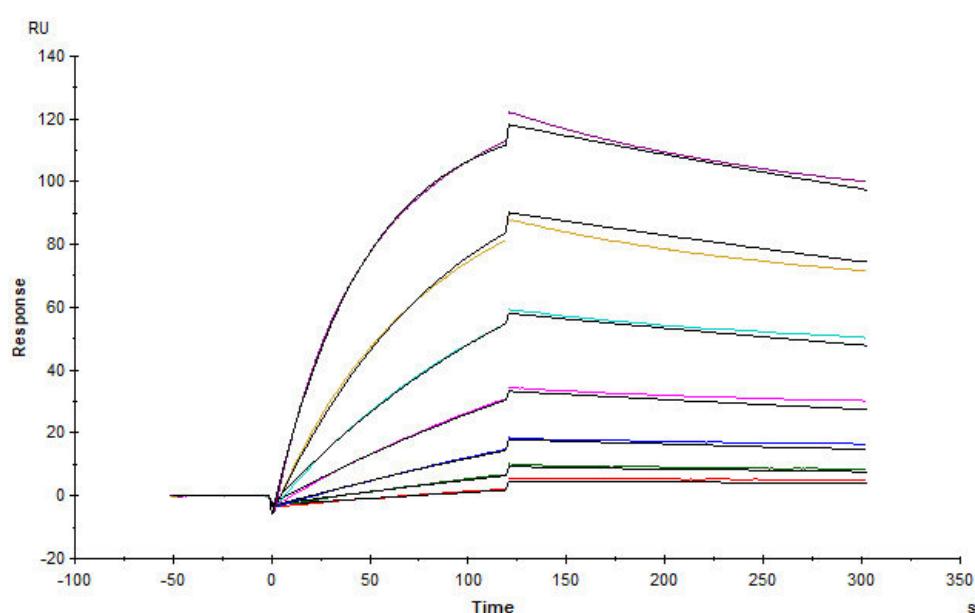
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Immobilized Human LIV-1, His Tag (Cat. No. LV1-H5223) at 1 µg/mL (100 µL/well) can bind Anti-LIV-1 antibody, Human IgG1 with a linear range of 0.2-2 ng/mL (QC tested).

Bioactivity-SPR



Anti-LIV-1 mAb captured on CM5 chip via anti-human IgG Fc antibody can bind Human LIV-1, His Tag (Cat. No. LV1-H5223) with an affinity constant of 5.24 nM as determined in a SPR assay (Biacore T200) (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

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