

Biotinylated Human FGL1 Protein, His,Avitag™ (recommended for biopanning)

Catalog # FG1-H82Ey



Synonym

FGL1, Hepassocin, HP-041, HFREP-1, LFIRE-1, HFREP1

Source

Biotinylated Human FGL1 Protein, His,Avitag (FG1-H82Ey) is expressed from human 293 cells (HEK293). It contains AA Leu 23 - Ile 312 (Accession # [Q08830-1](#)).

Molecular Characterization

Poly-his

Avi

FGL1(Leu 23 - Ile 312)
Q08830-1

[Other Tags and Version](#) [Biotin & Other Labeled Version](#)

This protein carries a polyhistidine tag at the N-terminus, followed by an Avi tag (Avitag™). The protein has a calculated MW of 37.9 kDa. The protein migrates as 35-38 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 with Arginine, 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.

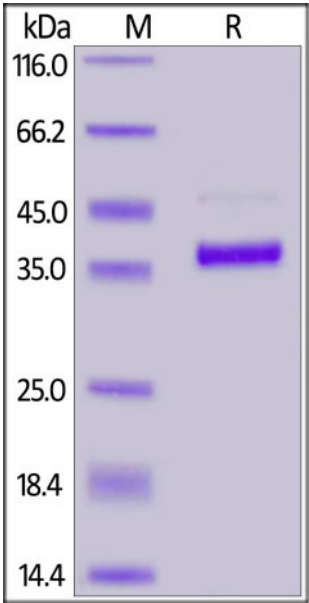
This product is stable after storage at:

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

ACRO Quality Management System

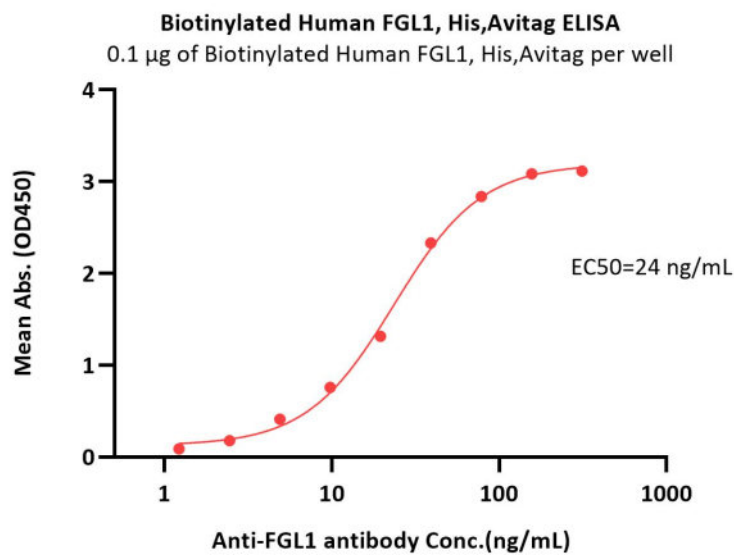
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



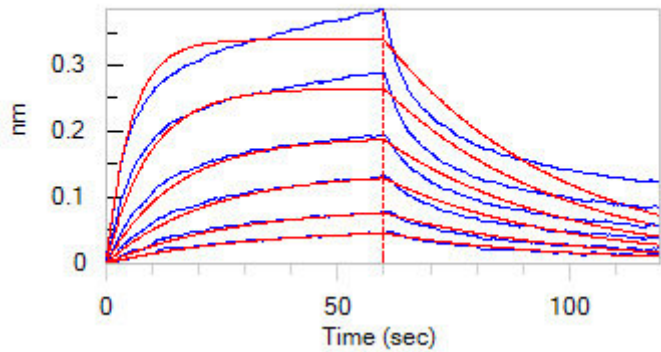
Biotinylated Human FGL1 Protein, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

Bioactivity-ELISA



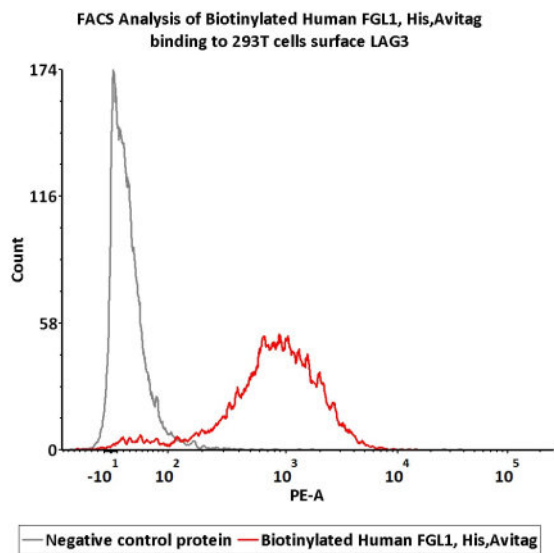
Immobilized Biotinylated Human FGL1, His,Avitag (recommended for biopanning) (Cat. No. FG1-H82Ey) at 1 µg/mL (100 µL/well)on streptavidin precoated (0.5 µg/well) plate can bind Anti-FGL1 antibody with a linear range of 1-40 ng/mL (QC tested).

Bioactivity-BLI



Loaded Biotinylated Human FGL1 Protein, His,Avitag (Cat. No. FG1-H82Ey) on SA Biosensor, can bind Human LAG-3 Protein, Fc Tag (Cat. No. LA3-H5255) with an affinity constant of 8.12 nM as determined in BLI assay (ForteBio Octet Red96e) (Routinely tested).

Bioactivity-FACS



FACS assay shows that Biotinylated Human FGL1 Protein, His,Avitag (Cat. No. FG1-H82Ey) can bind to 293T cells overexpressing Human LAG3. The concentration of Human FGL1 is 10 µg/mL (Routinely tested).

Background

Fibrinogen-like protein 1(FGL1) is also known as HP-041, Hepassocin, HFREP-1, LFIRE-1. The protective effect of fibrinogen-like protein 1 (FGL1) in liver injury has previously been reported. However, studies have shown that FGL1 may be a predictor of GC patients and a target for GC therapy. Immunocytochemical studies revealed that fgl1 selectively binds to defective spermatozoa in the cauda epididymidis. Northern blot analysis and in situ hybridization demonstrated the high expression of fgl1 in the principal cells of the proximal cauda epididymidis. Immunofluorescence analysis using mouse fibrotic lung tissues suggested that fibrotic regions showed increased expressions of Gtse1 and Fgl1, Gtse1 and Fgl1 are suggested to be novel targets for radiation-induced lung fibrosis.

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