



Synonym

Glypican 1, GPC1

Source

Biotinylated Human Glypican 1 Protein, His,Avitag(GP1-H82E3) is expressed from human 293 cells (HEK293). It contains AA Asp 24 - Ser 530 (Accession # [P35052-1](#)).

Predicted N-terminus: Asp 24

Molecular Characterization

Glypican 1(Asp 24 - Ser 530)
P35052-1 Poly-his Avi

This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 59.7 kDa. The protein migrates as 65-80 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 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

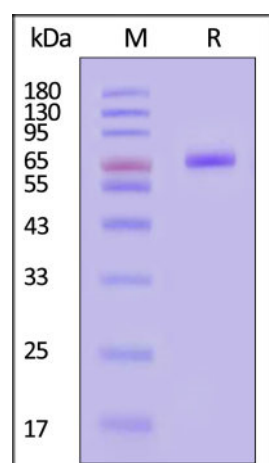
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

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.

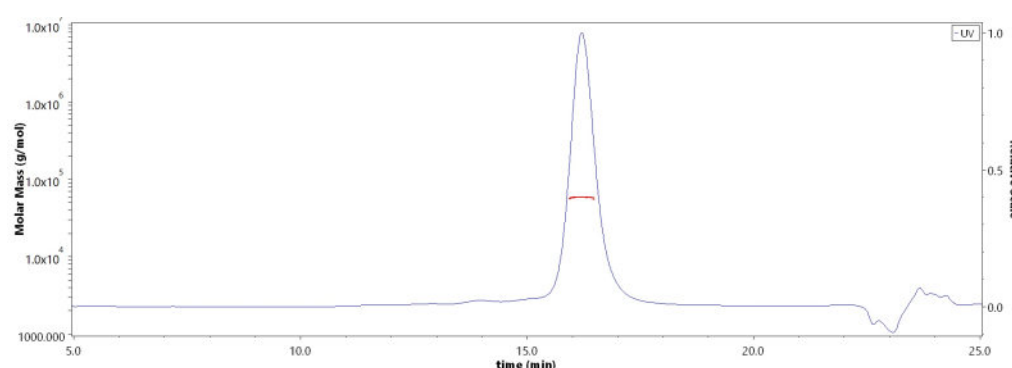
SDS-PAGE



Biotinylated Human Glypican 1 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% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-ELISA

SEC-MALS

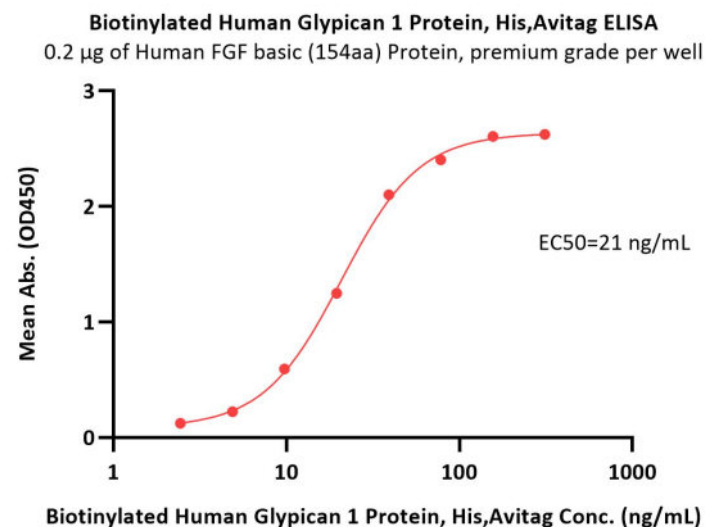
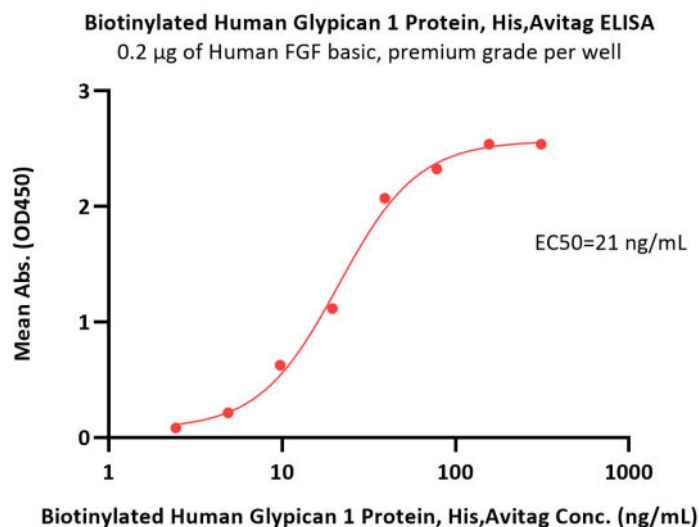


The purity of Biotinylated Human Glypican 1 Protein, His,Avitag (Cat. No. GP1-H82E3) is more than 90% and the molecular weight of this protein is around 55-75 kDa verified by SEC-MALS.

[Report](#)

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Immobilized Human FGF basic, premium grade (Cat. No. BFF-H4117) at 2 µg/mL (100 µL/well) can bind Biotinylated Human Glypican 1 Protein, His,Avitag (Cat. No. GP1-H82E3) with a linear range of 2-40 ng/mL (QC tested).

Immobilized Human FGF basic (154aa) Protein, premium grade (Cat. No. BFF-H5115) at 2 µg/mL (100 µL/well) can bind Biotinylated Human Glypican 1 Protein, His,Avitag (Cat. No. GP1-H82E3) with a linear range of 2-40 ng/mL (Routinely tested).

Background

Glypican 1 has been shown to interact with SLIT2. This protein is involved in the misfolding of normal prion proteins in the cell membrane to the infectious prion form. Cell surface heparan sulfate proteoglycans are composed of a membrane-associated protein core substituted with a variable number of heparan sulfate chains. Members of the glypican-related integral membrane proteoglycan family (GRIPS) contain a core protein anchored to the cytoplasmic membrane via a glycosyl phosphatidylinositol linkage. These proteins may play a role in the control of cell division and growth regulation.

Clinical and Translational Updates

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

