

**Synonym**

Glycan 1, GPC1

**Source**

Human Glycan 1 (S486A, S488A, S490A), His Tag(GP1-H52H8) is expressed from human 293 cells (HEK293). It contains AA Asp 24 - Ser 530 (Accession # [P35052-1](#) (S486A, S488A, S490A)).

Predicted N-terminus: Asp 24

**Molecular Characterization**

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

The protein has a calculated MW of 57.9 kDa. The protein migrates as 58-61 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**

Less than 1.0 EU per  $\mu$ g by the LAL method / rFC method.

**Purity**

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

**Formulation**

Lyophilized from 0.22  $\mu$ m filtered solution in 50 mM Tris, 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.*

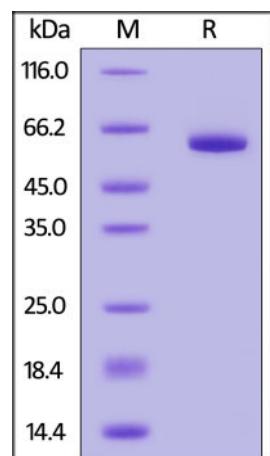
**Storage**

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

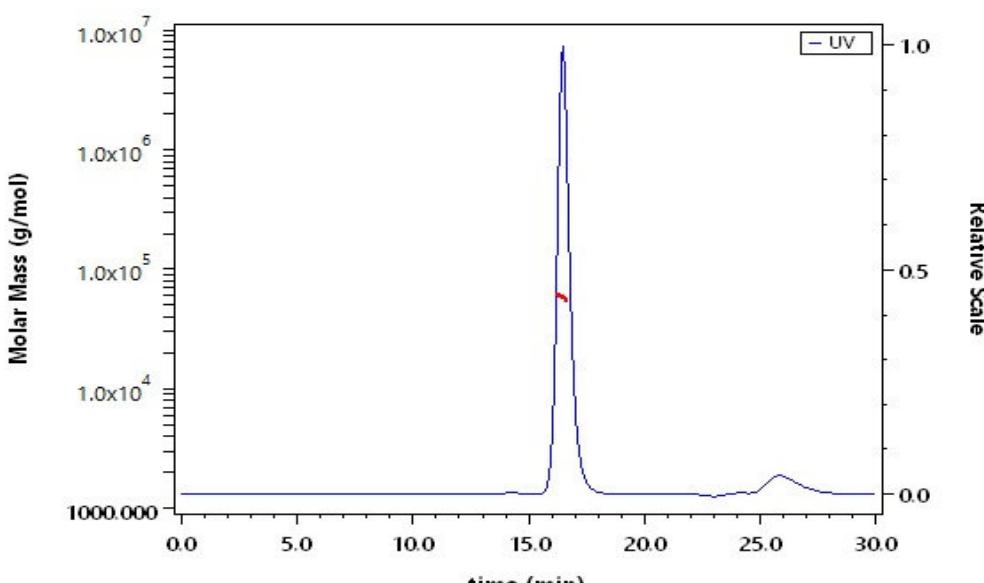
*Please avoid repeated freeze-thaw cycles.*

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**

Human Glycan 1 (S486A, S488A, S490A), His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

**SEC-MALS**

The purity of Human Glycan 1 (S486A, S488A, S490A), His Tag (Cat. No. GP1-H52H8) is more than 95% and the molecular weight of this protein is around 53-68 kDa verified by SEC-MALS.

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**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.

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