

Human Glypican 4 / GPC4 Protein, His Tag (MALS verified)

Catalog # GP4-H52H3



BIOSYSTEMS
Acro

Synonyms

Glypican 4, glypican proteoglycan 4, glypican-4, GPC4, K-glypican

Source

Human Glypican 4, His Tag (GP4-H52H3) is expressed from human 293 cells (HEK293). It contains AA Ala 19 - Ser 529 (Accession # [O75487-1](#)).

Molecular Characterization

Glypican 4(Ala 19 - Ser 529)
O75487-1

Poly-his

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

The protein has a calculated MW of 59.5 kDa. The protein migrates as 60-65 kDa under non-reducing (NR) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC 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.

Shipping and Storage

This product is shipped at ambient temperature.

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

Please avoid repeated freeze-thaw cycles.

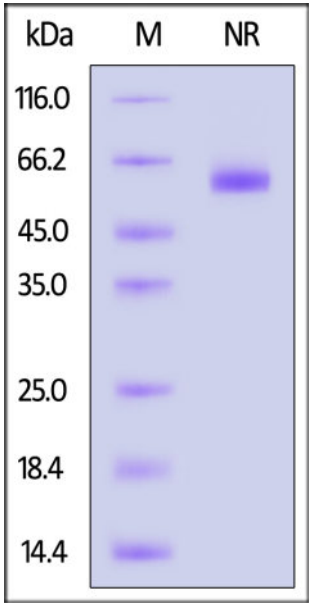
This product is stable after storage at:

- -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

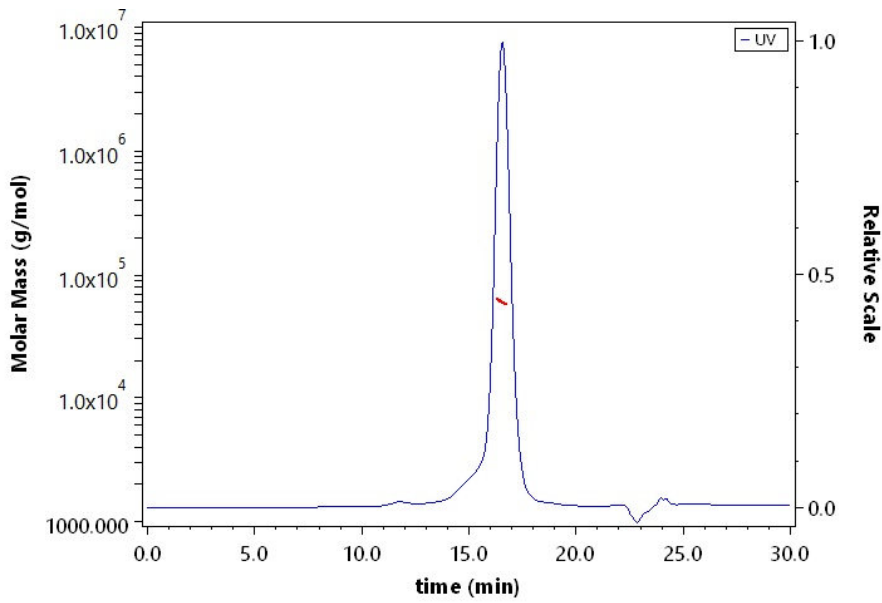
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



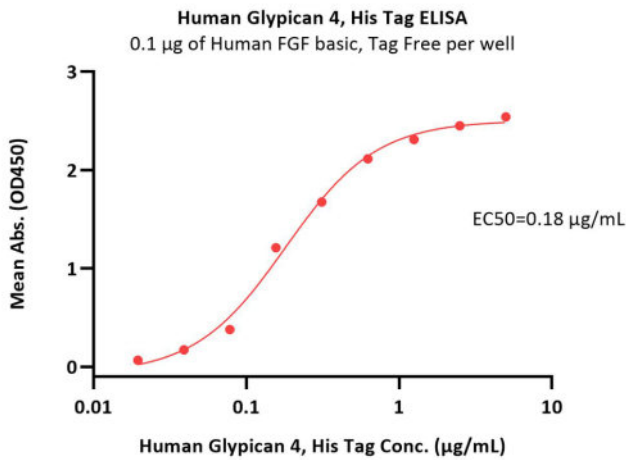
Human Glypican 4, His Tag on SDS-PAGE under non-reducing (NR) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

SEC-MALS



The purity of Human Glypican 4, His Tag (Cat. No. GP4-H52H3) is more than 90% and the molecular weight of this protein is around 55-69 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Human FGF basic, premium grade (Cat. No. BFF-H4117) at 1 µg/mL (100 µL/well) can bind Human Glypican 4, His Tag (Cat. No. GP4-H52H3) with a linear range of 0.02-0.625 µg/mL (QC tested).

Background

Glypican-4 is a protein that in humans is encoded by the GPC4 gene. 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 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. The GPC4 gene is adjacent to the 3' end of GPC3 and may also play a role in Simpson-Golabi-Behmel syndrome.



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