

Catalog No.: RP00138 **Recombinant**

Species	Gene ID	Swiss Prot
Human	2719	P51654-1

C-His

GPC3;DGSX; GTR2-2; MXR7; OCI-5;
SDYS; SGB; SGBS;
SGBS1;GTR2-2;MXR7;OCI-5;SDYS;SGB;S
GBS;SGBS1;glypican-3

Source	Purification
HEK293 cells	≥ 90 % as determined by SDS-PAGE

Calculated MW	Observed MW
61.62 kDa	40-55, 70-130 kDa.

< 0.1 EU/μg of the protein by LAL method.

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Glypican-3, also known as Intestinal protein OCI-5, GPC3, and OCI5, is a member of the glypican family. It belongs to the glypican family and is highly expressed in the lung, liver, and kidney. It is a heparan sulfate proteoglycan, which is overexpressed in various neoplasms such as hepatocellular carcinoma, malignant melanoma, and testicular yolk sac tumor, and plays an important role in cell growth and differentiation. GPC3 function is tissue-dependent. In some tissues, GPC3 acts as a tumor suppressor gene, whereas in others, it acts as an oncofetal protein. Studies have shown that GPC3 is a reliable marker for hepatocellular carcinoma. The sensitivity and specificity exceed both alpha-fetoprotein and hepatocyte-paraffin1. GPC3 immunohistochemistry can aid in the differentiation of testicular germ cell tumors, being expressed in all yolk sac tumors but not in seminomas. GPC3 expression has also been identified in some squamous cell carcinomas of the lung and clear cell carcinomas of the ovary.

Recombinant Human Glypican-3/GPC3 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Gln25-His559) of human Glypican 3 (Accession #NP_004475.1) fused with a 6xHis tag at the C-terminus.

Measured by its binding ability in a functional ELISA. Immobilized Human FGF2 at 0.5 $\mu\text{g/mL}$ (100 μL /well) can bind Human GPC3 with a linear range of 7-20 ng/mL .

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

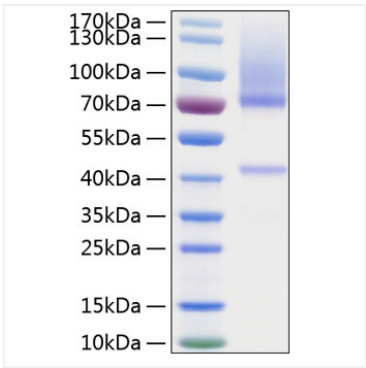
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

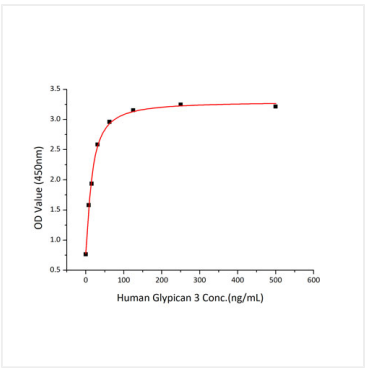
Avoid repeated freeze/thaw cycles.

For your safety and health, please wear a lab coat and disposable gloves for handling.

Validation Data



Recombinant Human Glypican-3/GPC3 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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