

Recombinant Human GPC3 Protein, His tagged, Biotin Labeled

Cat. No. GPC3-185H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotin Labeled Human Glypican-3 (Gln25-His559) with C-terminus His tag is expressed in CHO cells
Species	Human
Source	CHO
ProteinLength	Biotin
Conjugation/Label	25-559 aa
Description	Glypicans are heparan sulfate proteoglycans anchored to the cell surface by a glycosyl-phosphatidylinositol (GPI) linkage. There are six known mammalian glypicans (GPC1 to GPC6), which can be released by the lipase Notum. They regulate signaling pathways like Wnt, Hedgehog, FGF, and BMPs. Glypican-3 (GPC3) plays a role in modulating IGF2 interactions and influences cell proliferation. It also interacts with FGF-basic via heparan sulfate chains. Mutations in GPC3 cause Simpson-Golabi-Behmel Syndrome (SGBS), leading to overgrowth, dysmorphism, and malformations. GPC3 is expressed as a 70 kDa precursor, cleaved into a 40 kDa N-terminal and 30 kDa C-terminal subunit. It is highly expressed in Hepatocellular carcinoma and melanoma, but downregulated in cancers like ovarian, cholangiocarcinoma, mesothelioma, and breast cancer due to promoter hypermethylation.
Form	Liquid, 1×PBS buffer, pH7.4, 0.22

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	µm filtered
Molecular Mass	The protein has a predicted molecular weight of 62kDa. Under DTT-reducing conditions, it migrates at approximately 65-100 kDa on SDS-PAGE.
Purity	>95% based on SDS-PAGE under reducing condition
Applications	ELISA, BLI
Storage	Briefly centrifuge the vial upon receipt. An unopened vial can be stored at 4 centigrade for up to 2 weeks, or at -20 centigrade or below for up to six months. The protein may be further diluted to 0.1 mg/mL using 0.22 µm-filtered PBS buffer (pH 7.4). For long-term storage, the diluted stock solution should be aliquoted and stored at ≤ -70 centigrade to minimize freeze-thaw cycles. If additional dilution is required, carrier proteins such as FBS or BSA should be added to maintain protein stability.
Concentration	25 µg size is bottled at 0.2 mg/mL concentration. 100 µg size is supplied at a lot-specific concentration.

GENE INFORMATION

Gene Name	GPC3 glypican 3 [Homo sapiens (human)]
Official Symbol	GPC3
Synonyms	GPC3; glypican 3; SDYS; glypican-3; DGSX; glypican proteoglycan 3; OCI 5; SGB; SGBS; SGBS1; secreted glypican-3; intestinal protein OCI-5; heparan sulphate proteoglycan; MXR7; OCI-5; GTR2-2;
Gene ID	2719

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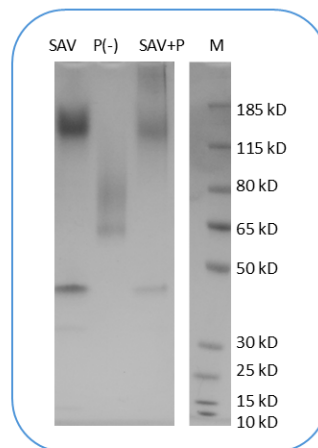
mRNA Refseq [NM_001164617](#)

Protein Refseq [NP_001158089](#)

MIM [300037](#)

UniProt ID [P51654](#)

SDS-PAGE



Human Glypican 3 (C-His) Protein was biotinylated in vitro. SDS-PAGE analysis under non-reducing (P-) conditions shows the protein has a purity greater than 95%. A gel shift assay using co-incubation with streptavidin indicates that the biotinylation efficiency of the Glypican 3 protein exceeds 85%.

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