Human CellExp™ Glypican 3 / GPC3, Human recombinant

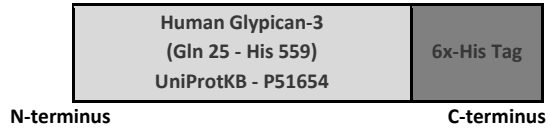
CATALOG NO:
P1057-10 10 µg
P1057-50 50 µg

ALTERNATE NAMES: GPC3, Intestinal protein OCI-5, OCI5, Glypican-3, GTR2-2, MXR7, DGSX, SDYS, SGB, SGBS, SGBS1

SOURCE: HEK 293 cells (Gln 25 - His 559)

PURITY: >90% by SDS – PAGE

MOL. WEIGHT: This protein is fused with 6×His tag at the C-terminus with a calculated MW of 61.7 kDa. The predicted N-terminus is Gln 25, Ser 359 and Val 483. The protein migrates as 40 kDa and 60-110 kDa under reducing condition (SDS-PAGE) due to glycosylation and disulfide bonds.



FORM: Lyophilized

FORMULATION: Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with 5% Trehalose added as protectant before lyophilization.

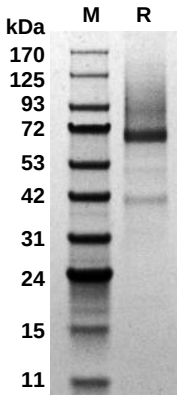
STORAGE CONDITIONS: Store at -20°C. After reconstitution, aliquot and store at -20°C and use within 3 months. Avoid repeated freezing and thawing cycles.

RECONSTITUTION: Centrifuge the vial prior to opening. Reconstitute in sterile PBS, pH 7. Do not vortex. For extended storage, it is recommended to store at -20°C.

DESCRIPTION: Glypican-3 (GPC3) is also known as intestinal protein OCI-5, GTR2-2, MXR7, which belongs to the glypican family. Glypican 3 / GPC-3 is highly expressed in lung, liver and kidney. As a member of heparin sulfate proteoglycans, GPC3 attaches to the cell membrane and is frequently observed to be elevated in hepatocellular carcinoma (HCC). The GPC3 gene is involved in Simpson-Golabi-Behmel syndrome. Glypican-3 inhibits the dipeptidyl peptidase activity of DPP4. Glypican-3 may be involved in the suppression/modulation of growth in the predominantly mesodermal tissues and organs, and also may play a role in the modulation of IGF2 interactions with its receptor and thereby modulate its function.

BIOLOGICAL ACTIVITY: Measured by its binding ability with FGF-2 in a functional ELISA. Human Glypican 3 (Cat. No. P1057) can bind Immobilized FGF-2 (Cat. No. 4037 at 0.05 µg/well) with a linear range of 2.5-600 ng/mL.

A



B

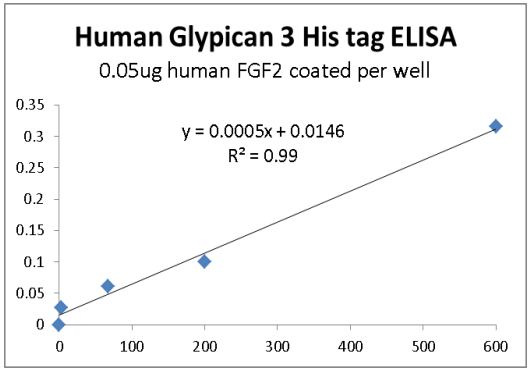


Fig. A. SDS-PAGE (4-20%) of Recombinant Glypican 3: 2 ug of GPC3 loaded under reducing conditions and stained with Coomassie Blue

Fig. B. Biological activity: BV Human Glypican 3 can bind Immobilized FGF-2 (Cat. No. 4037) at 0.5 µg/mL (100 µL/well) with a linear range of 2.5-600 ng/mL.

RELATED PRODUCT:

- Human CellExp™ Glypican 3 / GPC3, Fc Tag, Human Recombinant **(Cat. No. P1341)**
- Human CellExp™ Glypican 3 / GPC3, Cynomolgus Recombinant **(Cat. No. P1176)**
- Human CellExp™ Glypican 3 / GPC3, Cynomolgus recombinant **(Cat. No. P1119)**
- Human CellExp™ Glypican 3 / GPC3, Mouse Recombinant **Cat. No. P1177)**
- Human CellExp™ Glypican 3 /GPC3, mouse recombinant **(Cat. No. P1118)**
- Human CellExp™ FABP-3, human recombinant **(Cat. No. 7234)**
- Human CellExp™ FABP2 /I-FABP, human recombinant **(Cat. No. 7274)**
- Human CellExp™ FABP2 /I-FABP, human recombinant **(Cat. No. 7474)**

FOR RESEARCH USE ONLY! Not to be used on humans.