

## Recombinant Human GPC3 Protein (S359F), His-tagged, low endotoxin, Alexa Fluor 647 conjugated

**Cat. No.** GPC3-2246HAF647    **Lot. No.** (See product label)

### SPECIFICATION

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>             | Alexa Fluor 647 conjugated recombinant human GPC3 (S359F, Gln25-His559)(low endotoxin) protein was fused to His-tag at C-terminus and expressed in human 293 cells (HEK293).                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>                      | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>                       | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>                | Gln25-His559                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>                  | 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. 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. |
| <b>Form</b>                         | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Molecular Mass</b>               | The protein has a calculated MW of 61.7 kDa. The protein migrates as 66-115 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.                                                                                                                                                                                                                                                                                                                                               |
| <b>N-terminal Sequence Analysis</b> | Gln 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

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|                       |                                                                                                                                                                                                                                                                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>      | < 0.1 EU/ µg by the LAL method.                                                                                                                                                                                                                                                                                                          |
| <b>Purity</b>         | > 90 % as determined by SDS-PAGE                                                                                                                                                                                                                                                                                                         |
| <b>Characteristic</b> | Disulfide-linked homodimer<br>Labeled with Alexa Fluor 647 via amines<br>Excitation = 650 nm<br>Emission = 668 nm                                                                                                                                                                                                                        |
| <b>Storage</b>        | For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower.<br>Please avoid repeated freeze-thaw cycles.<br>This product is stable after storage at:<br>-20 to -70 centigrade for 12 months in lyophilized state;<br>-70 centigrade for 3 months under sterile conditions after reconstitution. |
| <b>Storage Buffer</b> | Lyophilized from 0.22 µm filtered solution in PBS, pH7.4, 10% trehalose.                                                                                                                                                                                                                                                                 |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.                                                                                                                                                   |
| <b>Conjugation</b>    | Alexa Fluor 647                                                                                                                                                                                                                                                                                                                          |

## GENE INFORMATION

|                        |                                                                                |
|------------------------|--------------------------------------------------------------------------------|
| <b>Gene Name</b>       | GPC3                                                                           |
| <b>Official Symbol</b> | GPC3                                                                           |
| <b>Synonyms</b>        | GPC3; glypican 3; SDYS; glypican-3; DGSX; glypican proteoglycan 3; OCI 5; SGB; |

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SGBS; SGBS1; secreted glypican-3; intestinal protein OCI-5; heparan sulphate proteoglycan; MXR7; OCI-5; GTR2-2

**Gene ID**

2719

**mRNA Refseq**

NM\_001164617

**Protein Refseq**

NP\_001158089

**MIM**

300037

**UniProt ID**

P51654

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