



## Synonym

GPC3, OCI5, Glycan-3, GTR2-2, MXR7, DGSX, SDYS, SGB, SGBS, SGBS1

## Source

FITC-Labeled Human Glycan 3, His Tag (Cat. No. GP3-HF2H1) is expressed from human HEK293 cells. It contains AA Gln 25 - His 559 (Accession # [P51654-1](#)). It is the FITC labeled form of Human Glycan 3, His Tag (Cat. No. GP3-H52H4).

Predicted N-terminus: Gln 25 & Ser 359

## Molecular Characterization

Glycan 3(Gln 25 - His 559) P51654-1	Poly-his
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This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 38.1 kDa & 24.6 kDa. The protein migrates as 30 kDa, 38-40 kDa, and 65-90 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Conjugate

FITC

Excitation source: 488 nm spectral line, argon-ion laser

Excitation Wavelength: 488 nm

Emission Wavelength: 535 nm

## Labeling

*The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with FITC using standard chemical labeling method. The residual FITC is removed by molecular sieve treatment during purification process.*

## Protein Ratio

The FITC to protein molar ratio is 3.5-6.5.

## Purity

>90% as determined by SDS-PAGE.

## 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.*

## Storage

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

*Please protect from light and avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

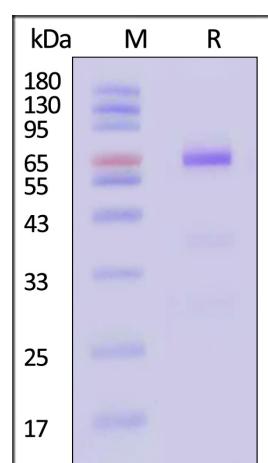
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE

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and more!

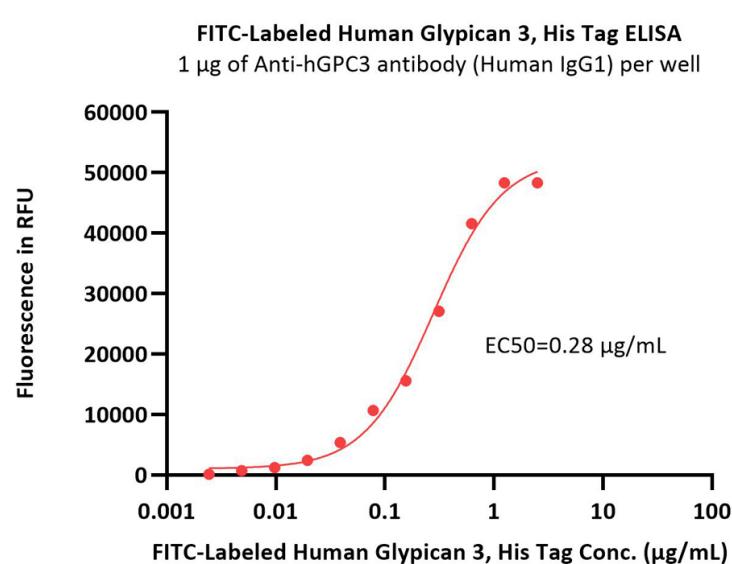


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FITC-Labeled Human Glycan 3, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

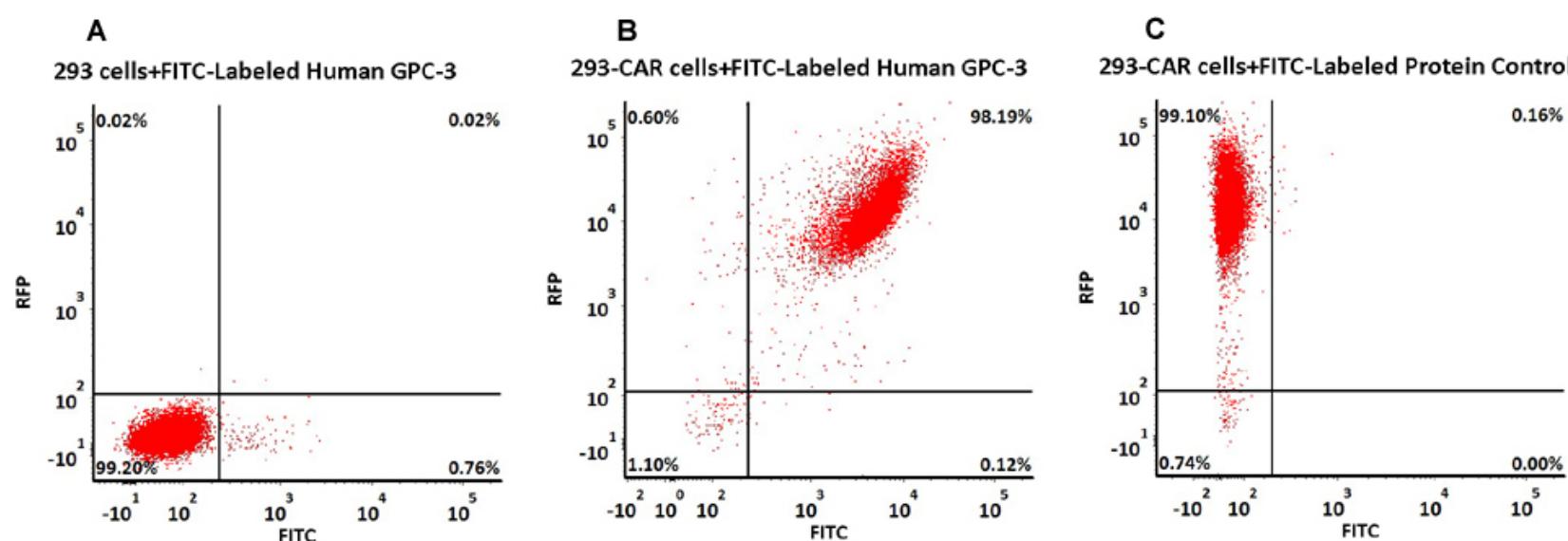
### Bioactivity-ELISA



Immobilized Anti-hGPC3 antibody (Human IgG1) at 10 µg/mL (100 µL/well) can bind FITC-Labeled Human Glycan 3, His Tag (Cat. No. GP3-HF2H1) with a linear range of 0.078-0.625 µg/mL (QC tested).

### Evaluation of CAR expression

#### FACS Analysis of anti-GPC3 CAR Expression



293 cells were transfected with anti-GPC3-scFv and RFP tag. 2e5 of the cells were stained with B. FITC-Labeled Human Glycan 3, His Tag (Cat. No. GP3-HF2H1, 3 µg/ml) and C. FITC-labeled Protein Control. A. Non-transfected 293 cells and C. FITC-labeled Protein Control were used as negative control. RFP was used to evaluate CAR (anti-GPC3-scFv) expression and FITC was used to evaluate the binding activity of FITC-Labeled Human Glycan 3, His Tag (Cat. No. GP3-HF2H1) (QC tested).

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## Background

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.

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