



## Synonym

GUCY2C, GUC2C, STAR, STA receptor, hSTAR, GC-C

## Source

FITC-Labeled Human GUCY2C, His Tag (GUC-HF2H8) is expressed from human 293 cells (HEK293). It contains AA Ser 24 - Gln 430 (Accession # [P25092-1](#)). It is the FITC labeled form of Human GUCY2C, His Tag (GUC-H52H5).

Predicted N-terminus: Ser 24

## Molecular Characterization

GUCY2C(Ser 24 - Gln 430) P25092-1	Poly-his
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This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 47.9 kDa. The protein migrates as 60-90 kDa 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 1-3.

## Purity

>95% 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

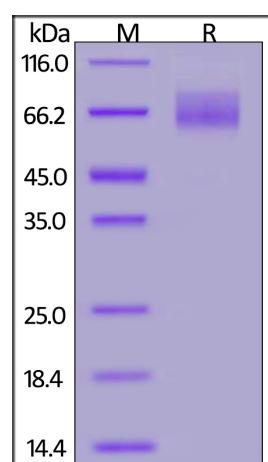
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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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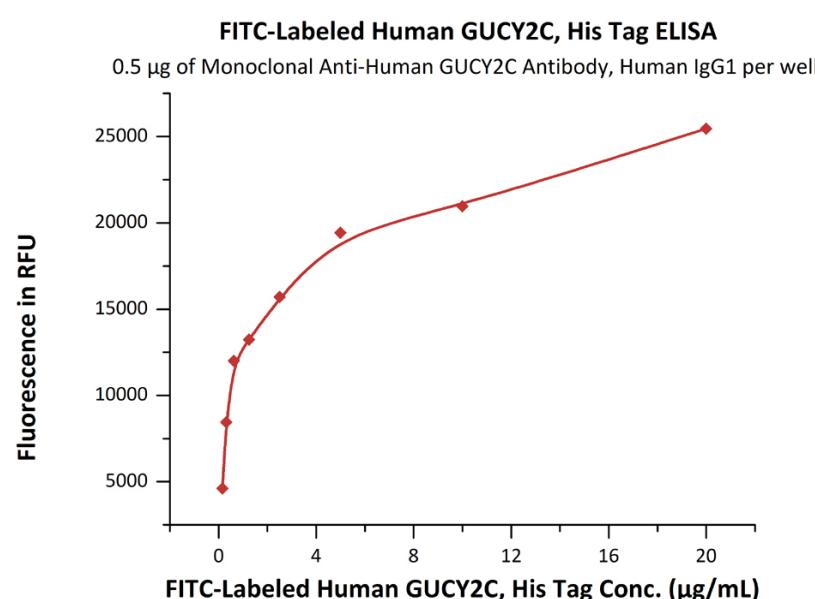


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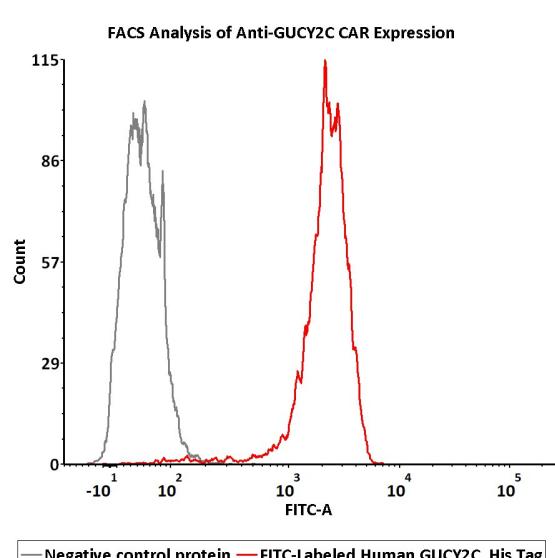
FITC-Labeled Human GUCY2C, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

### Bioactivity-ELISA



Immobilized Monoclonal Anti-Human GUCY2C Antibody, Human IgG1 at 5 µg/mL (100 µL/well) can bind FITC-Labeled Human GUCY2C, His Tag (Cat. No. GUC-HF2H8) with a linear range of 0.156-0.625 µg/mL (QC tested).

### Bioactivity-FACS



2e5 of anti-GUCY2C CAR-293 cells were stained with 100 µL of 1 µg/mL of FITC-Labeled Human GUCY2C, His Tag (Cat. No. GUC-HF2H8) and negative control protein respectively. FITC signal was used to evaluate the binding activity (QC tested).

### Background

GUCY2C (Guanylyl Cyclase C), also known as heat-stable enterotoxin receptor, is a type I transmembrane protein of the guanylate cyclase (gc) family that signal by producing cGMP. Guanylate cyclase C (GUCY2C) and its hormones guanylin and uroguanylin have recently emerged as one paracrine axis defending intestinal mucosal integrity against mutational, chemical, and inflammatory injury. GUCY2C murine CAR-T cells recognized and killed human colorectal cancer cells endogenously expressing GUCY2C. Thus, we have identified a human GUCY2C-specific CAR-T cell therapy approach that may be developed for the treatment of GUCY2C-expressing metastatic colorectal cancer.

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