

# FITC-Labeled Human GUCY2C / Guanylyl cyclase C Protein, Fc Tag

Catalog # GUC-HF255



## Synonym

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

## Source

FITC-Labeled Human GUCY2C, Fc Tag (GUC-HF255) 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, Fc Tag (Cat. No. GUC-H5257).

Predicted N-terminus: Ser 24

## Molecular Characterization

|                                      |                                 |
|--------------------------------------|---------------------------------|
| GUCY2C(Ser 24 - Gln 430)<br>P25092-1 | Fc(Pro 100 - Lys 330)<br>P01857 |
|--------------------------------------|---------------------------------|

### [Other Tags and Version](#) [Biotin & Other Labeled Version](#)

This protein carries a human IgG1 Fc tag at the C-terminus.  
The protein has a calculated MW of 72.5 kDa. The protein migrates as 90-115 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 **1.5-3.5**.

## 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

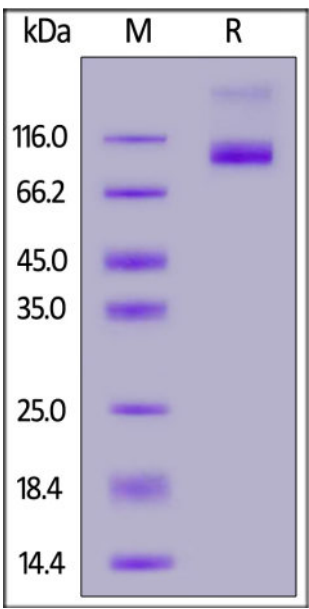
For long term storage, the product should be stored at lyophilized state at -20°C or lower.  
**Please protect from light and avoid repeated freeze-thaw cycles.**  
This product is stable after storage at:

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

## ACRO Quality Management System

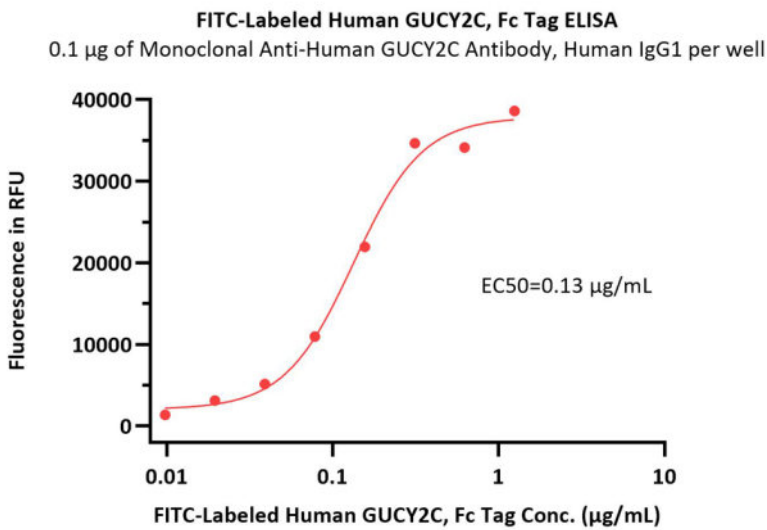
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

## SDS-PAGE



FITC-Labeled Human GUCY2C, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

## Bioactivity-ELISA



Immobilized Monoclonal Anti-Human GUCY2C Antibody, Human IgG1 at 1 µg/mL (100 µL/well) can bind FITC-Labeled Human GUCY2C, Fc Tag (Cat. No. GUC-HF255) with a linear range of 0.01-0.313 µg/mL (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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