



### Synonym

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

### Source

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

Predicted N-terminus: Ser 24

### Molecular Characterization

GUCY2C(Ser 24 - Gln 430)	Poly-his
P25092-1	

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 47.9 kDa. The protein migrates as 60-95 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

### Endotoxin

Less than 1.0 EU per  $\mu$ g by the LAL method / rFC method.

### Purity

>90% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

### Formulation

Lyophilized from 0.22  $\mu$ m 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

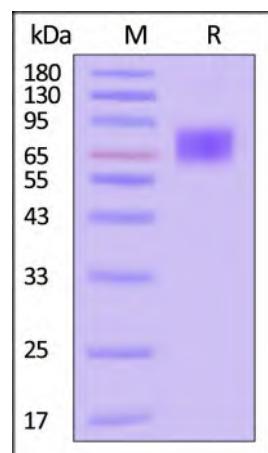
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

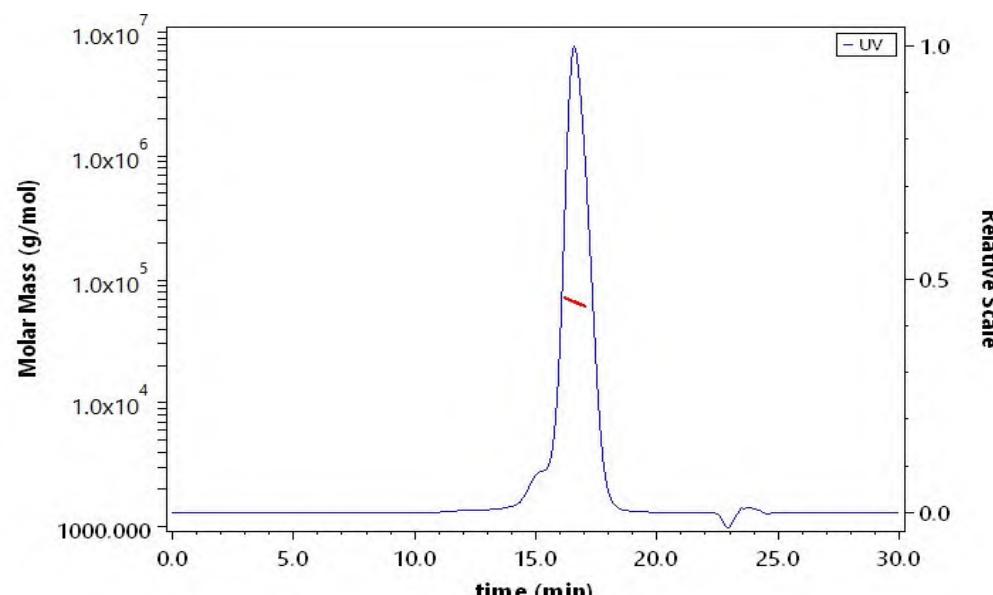
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

### SDS-PAGE



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 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

### SEC-MALS



The purity of Human GUCY2C, His Tag (Cat. No. GUC-H52H5) is more than 95% and the molecular weight of this protein is around 58-78 kDa verified by SEC-MALS.

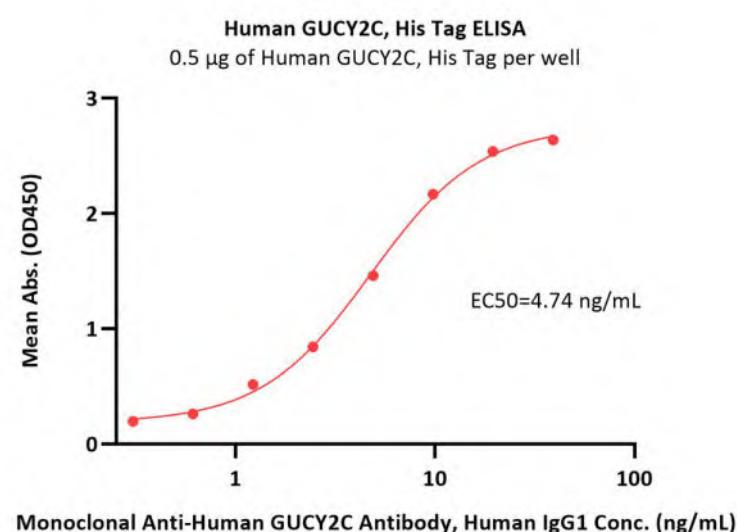
[Report](#)

### Bioactivity-ELISA

Discounts, Gifts,  
and more!

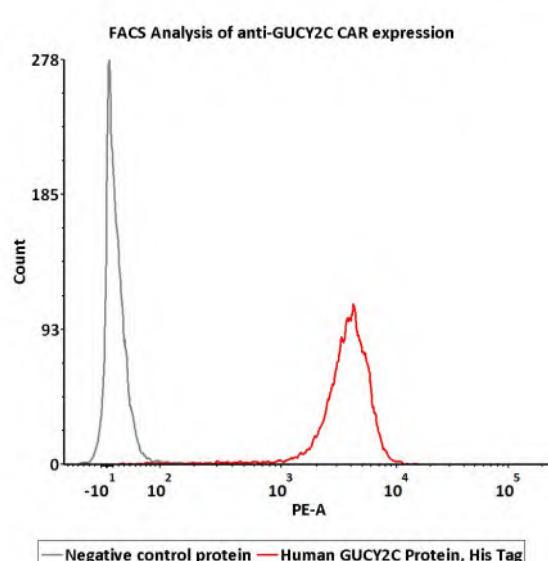


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Immobilized Human GUCY2C, His Tag (Cat. No. GUC-H52H5) at 5 µg/mL (100 µL/well) can bind Monoclonal Anti-Human GUCY2C Antibody, Human IgG1 with a linear range of 0.3-5 ng/mL (QC tested).

### Bioactivity-FACS



2e5 of anti-GUCY2C CAR-293 cells were stained with 100 µL of 1 µg/mL Human GUCY2C, His Tag (Cat. No. GUC-H52H5) and negative control protein respectively, washed and then followed by PE anti-His antibody and analyzed with FACS (Routinely 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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