



## Synonym

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

## Source

Biotinylated Cynomolgus GUCY2C Protein, His,Avitag(GUC-C82E9) is expressed from human 293 cells (HEK293). It contains AA Ser 24 - Gln 430 (Accession # [XP\\_005570270.1](#)).

Predicted N-terminus: Ser 24

## Molecular Characterization

GUCY2C(Ser 24 - Gln 430)	Poly-his	Avi
XP_005570270.1		

This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™).

The protein has a calculated MW of 49.7 kDa. The protein migrates as 70-95 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Labeling

*Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.*

## Protein Ratio

Passed as determined by the HABA assay / binding ELISA.

## Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

## 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

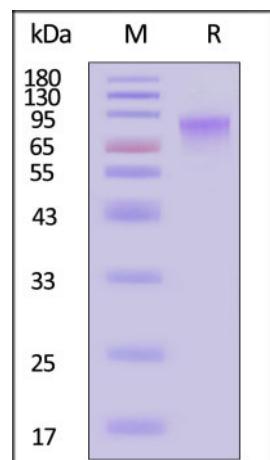
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

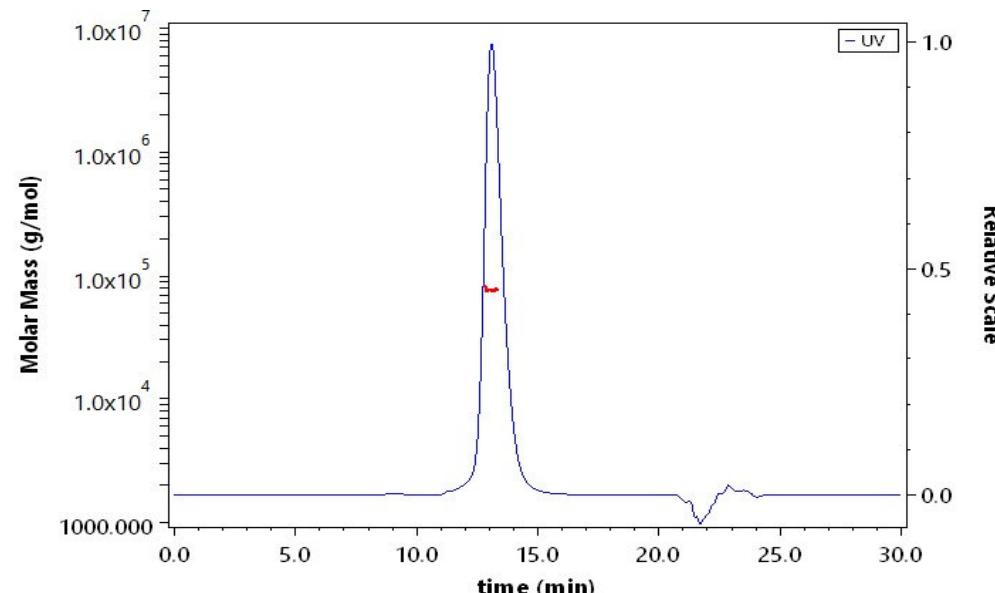
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE



Biotinylated Cynomolgus GUCY2C Protein, His,Avitag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

## SEC-MALS



The purity of Biotinylated Cynomolgus GUCY2C Protein, His,Avitag (Cat. No. GUC-C82E9) is more than 95% and the molecular weight of this protein is around 70-90 kDa verified by SEC-MALS.

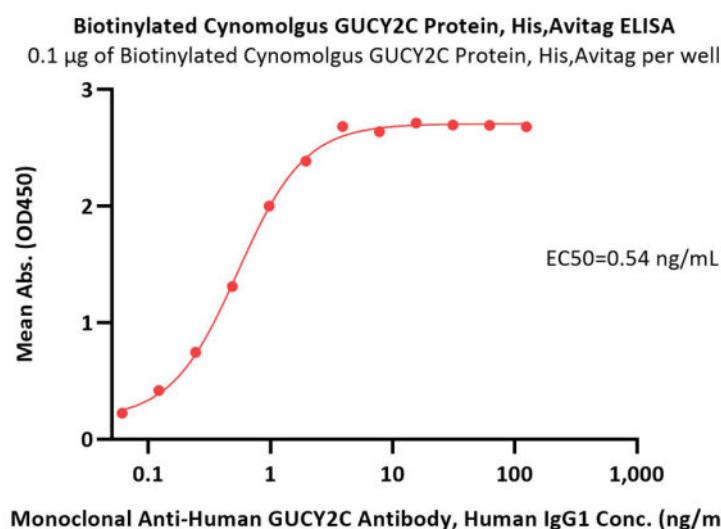
[Report](#)

## Bioactivity-ELISA

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Immobilized Biotinylated Cynomolgus GUCY2C Protein, His,Avitag (Cat. No. GUC-C82E9) at 1 µg/mL (100 µL/well) on streptavidin (Cat. No. STN-N5116) precoated (0.5 µg/well) plate can bind Monoclonal Anti-Human GUCY2C Antibody, Human IgG1 with a linear range of 0.1-1 ng/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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