

# Biotinylated Human GUCY2C/Guanylyl cyclase C Protein

Cat. No. GCC-HM401B

## Description

<b>Source</b>	Recombinant Biotinylated Human GUCY2C/Guanylyl cyclase C Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. It contains Ser24-Gln430.
<b>Accession</b>	P25092-1
<b>Molecular Weight</b>	The protein has a predicted MW of 48.8 kDa. Due to glycosylation, the protein migrates to 55-65 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

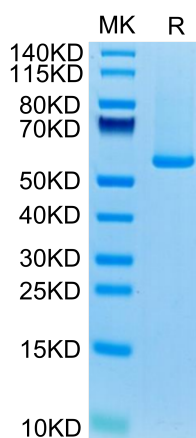
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 24 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

## Background

Guanylyl cyclase C (GUCY2C) has canonical centrality in defense of key intestinal homeostatic mechanisms, encompassing fluid and electrolyte balance, epithelial dynamics, antitumorigenesis, and intestinal barrier function. GUCY2C may represent a new target for anti-obesity pharmacotherapy.

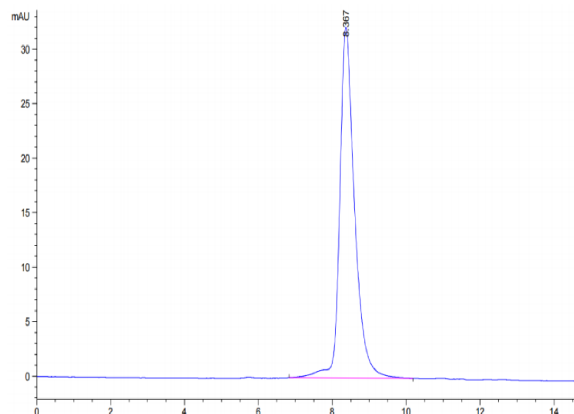
## Assay Data

### Bis-Tris PAGE



Biotinylated Human GUCY2C on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC



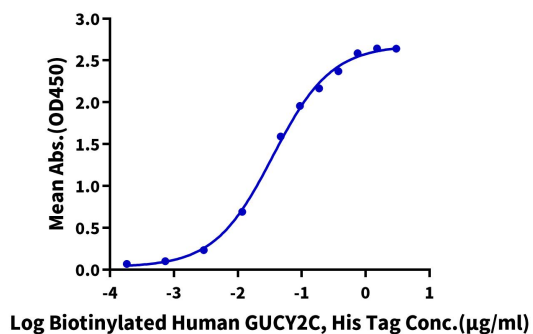
The purity of Biotinylated Human GUCY2C is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Biotinylated Human GUCY2C-2, His Tag ELISA**

0.1 $\mu$ g Anti-GUCY2C Antibody, hFc Tag Per Well



Immobilized Anti-GUCY2C Antibody at 1 $\mu$ g/ml (100 $\mu$ l/well) on the plate. Dose response curve for Biotinylated Human GUCY2C, His Tag with the EC50 of 35.3ng/ml determined by ELISA.