

Biotinylated Human GUCY2C/Guanylyl cyclase C Protein

Cat. No. GCC-HM401B

Description

Source	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.
Accession	P25092-1
Molecular Weight	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.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

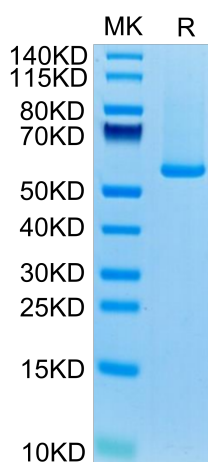
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-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.

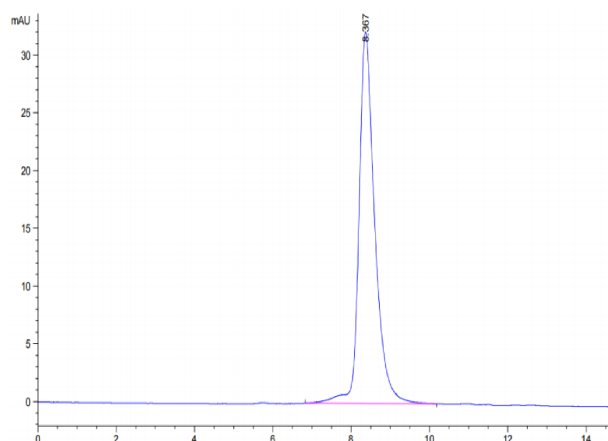
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



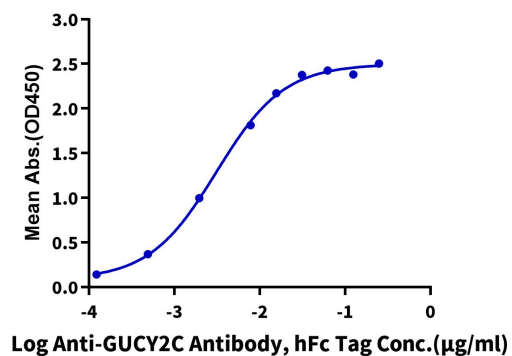
The purity of Biotinylated Human GUCY2C is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Biotinylated Human GUCY2C, His-Avi Tag ELISA

0.05µg Biotinylated Human GUCY2C, His-Avi Tag Per Well



Immobilized Biotinylated Human GUCY2C, His-Avi Tag at 0.5µg/ml (100µl/Well) on streptavidin (5µg/ml) precoated plate. Dose response curve for Anti-GUCY2C Antibody, hFc Tag with the EC50 of 3.1ng/ml determined by ELISA.