

Human GUCY2C/Guanylyl cyclase C Protein

Cat. No. GCC-HM401

Description

Source	Recombinant human GUCY2C/Guanylyl cyclase C Protein is expressed from Expi293 with His tag and Avi tag at the C-terminal. 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 70-80 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

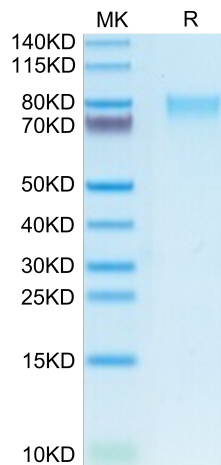
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended (usually we use 1mg/ml solution for lyophilization). Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please avoid 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

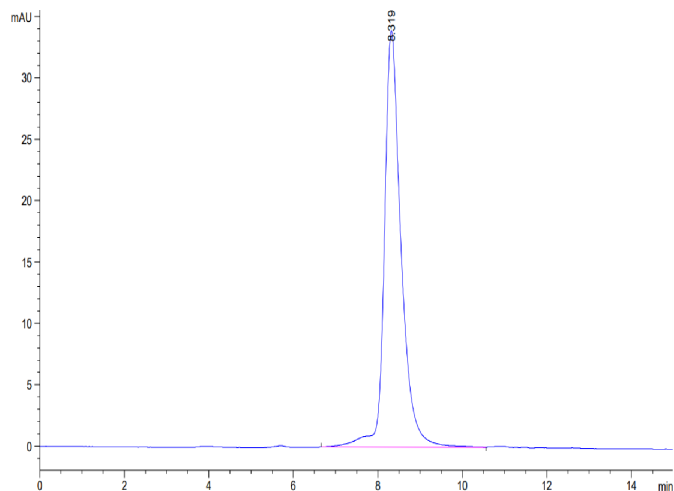
Tris-Bis PAGE



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

SEC-HPLC

Assay Data

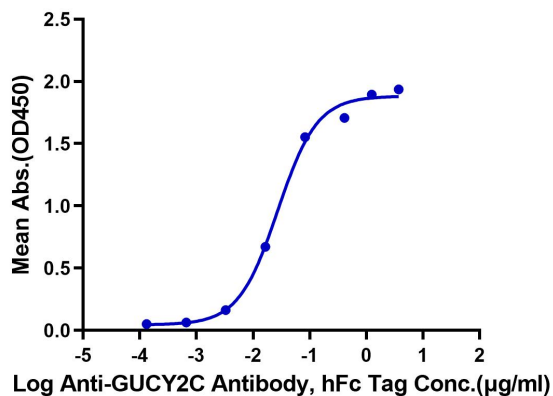


The purity of Human GUCY2C is greater than 95% as determined by SEC-HPLC.

ELISA Data

Human GUCY2C, His ELISA

0.5µg Human GUCY2C, His Tag Per Well



Immobilized Human GUCY2C, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Anti-GUCY2C Antibody, hFc Tag with the EC50 of 27.2ng/ml determined by ELISA.