Human GUCY2C/Guanylyl cyclase C Protein

Cat. No.   GCC-HM401

Description

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Source	Recombinant 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 70-80 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 12 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.
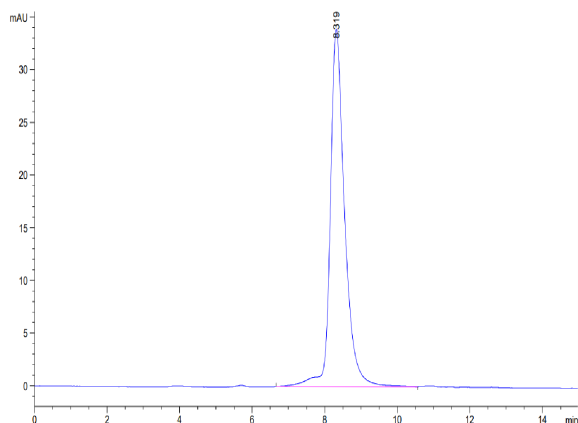
Assay Data

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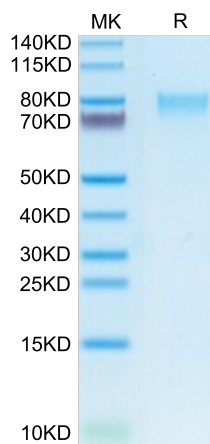
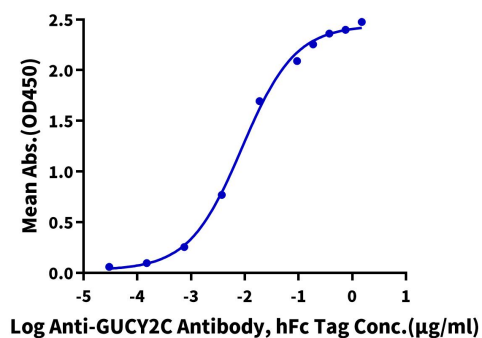Human GUCY2C on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

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

Assay Data

ELISA Data

Human GUCY2C, His Tag 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 8.9ng/ml determined by ELISA.