Human GUCY2C/Guanylyl cyclase C Protein

Cat. No. GCC-HM101

Description

Source	Recombinant Human GUCY2C/Guanylyl cyclase C Protein is expressed from HEK293 with His tag at the C-terminus.
	It contains Ser24-Gln430.
Accession	P25092-1
Molecular Weight	The protein has a predicted MW of 47.62 kDa. Due to glycosylation, the protein migrates to 70-90 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.1 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE
	> 95% as determined by HPLC

Formulation and Storage

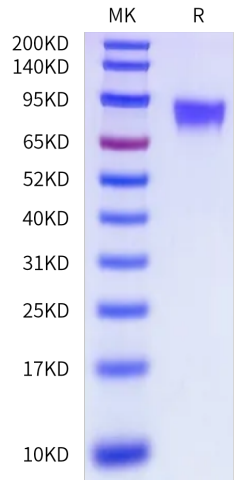
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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.

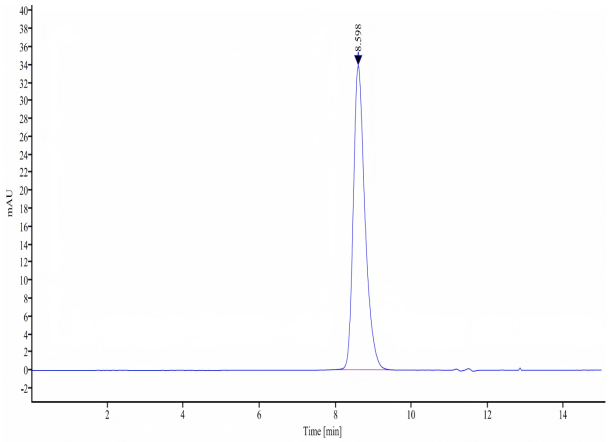
Assay Data

Bis-Tris PAGE



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

SEC-HPLC



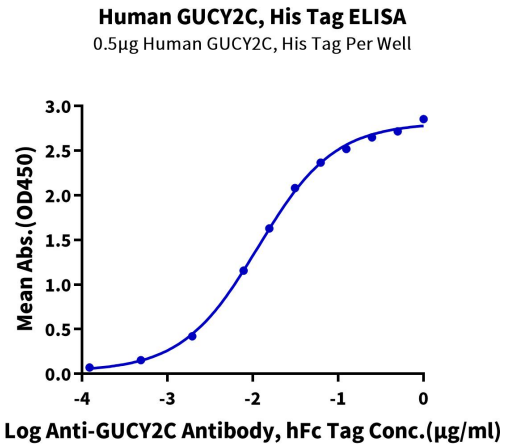
The purity of Human GUCY2C is greater than 95% as determined by SEC-HPLC.

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Assay Data

ELISA Data



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 11.5ng/ml determined by ELISA.

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