

Cynomolgus GUCY2C/Guanylyl cyclase C Protein, Ultra Low Endotoxin

Cat. No. GCC-CM101-UL

Description

Source	Recombinant Cynomolgus GUCY2C/Guanylyl cyclase C Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Ser24-Gln430.
Accession	XP_005570270.1
Molecular Weight	The protein has a predicted MW of 47.2 kDa. Due to glycosylation, the protein migrates to 60-75 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 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 0.22µm 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

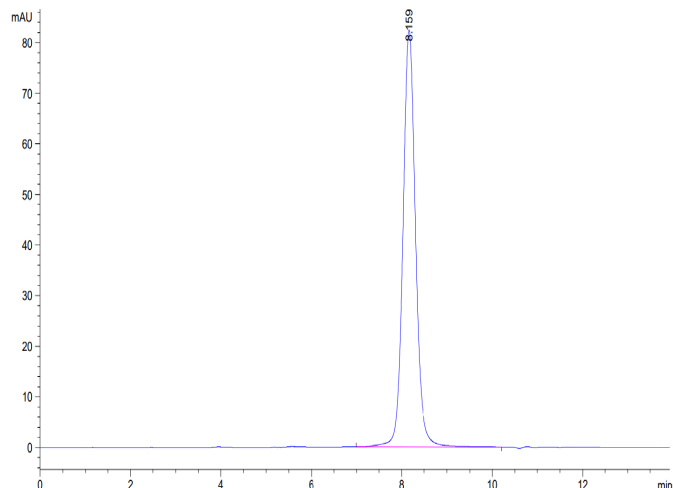
Bis-Tris PAGE



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

SEC-HPLC

Assay Data

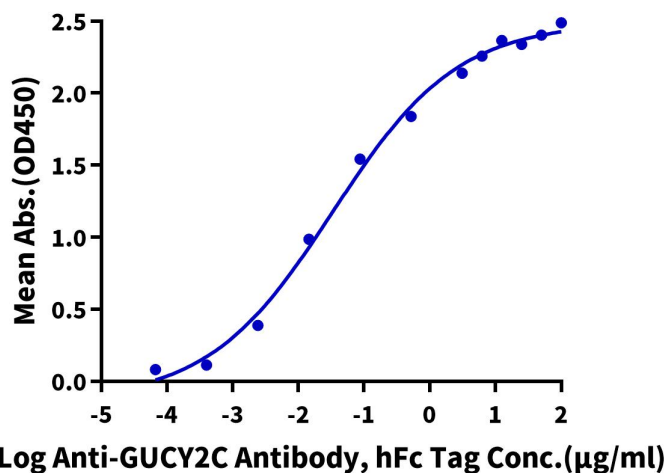


The purity of Cynomolgus GUCY2C is greater than 95% as determined by SEC-HPLC.

ELISA Data

Cynomolgus GUCY2C, His Tag ELISA

0.5µg Cynomolgus GUCY2C, His Tag Per Well



Immobilized Cynomolgus GUCY2C, His Tag at 5µg/ml (100µl/Well) on the plate. Dose response curve for Anti-GUCY2C Antibody, hFc Tag with the EC50 of 33.5ng/ml determined by ELISA (QC Test).