

Recombinant Cynomolgus Guanylyl cyclase C /GUCY2C Protein

Catalog No.: RP02645

Sequence Information

Species	Gene ID
Cynomolgus	102130850
Swiss Prot	Tags
XP_005570270.1	C-His

Synonyms

Guanylyl cyclase C; GC-C; STAR; GUCY2C; GUC2C; STA receptor; DIAR6; EC 4.6.1; GCC; GUC2CEC 4.6.1.2; MUCIL

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by Tris-Bis PAGE; ≥ 95 % as determined by HPLC.

Calculated MW	Observed MW
47.2 kDa	60-75 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method.

Formulation

Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Guanylyl cyclase C (GUCY2C) has canonical centrality in defense of key intestinal homeostatic mechanisms, encompassing fluid and electrolyte balance, epithelial dynamics, antitumorogenesis, and intestinal barrier function. GUCY2C may represent a new target for anti-obesity pharmacotherapy.

Basic Information

Description

Recombinant Cynomolgus Guanylyl cyclase C/GUCY2C Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ser24-Gln430) of cynomolgus Guanylyl cyclase C/GUCY2C (Accession #XP_005570270.1) fused with His tag at the C-terminus.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

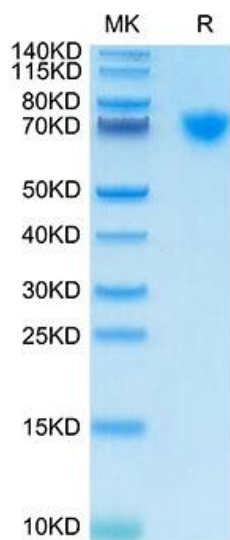
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

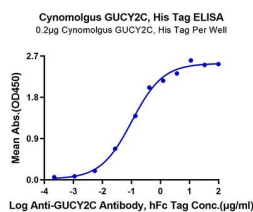
Contact

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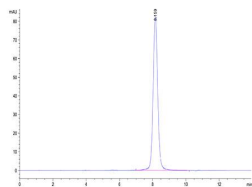
Validation Data



Recombinant Cynomolgus Guanylyl cyclase C/GUCY2C Protein was determined by Tris-Bis PAGE under reducing conditions.



Immobilized Cynomolgus GUCY2C, His Tag at 2µg/ml (100µl/Well) on the plate. Dose response curve for Anti-GUCY2C Antibody, hFc Tag with the EC₅₀ of 103.3ng /ml determined by ELISA.



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