

Recombinant Human Guanylyl cyclase C/GUCY2C Protein

Catalog No.: RP01430 **Recombinant**

Sequence Information

Species Human **Gene ID** 2984 **Swiss Prot** P25092-1

Tags

C-His&Avi

Synonyms

GUCY2C;DIAR6;GC-C;GUC2C;MECIL;MUCIL;STAR

Background

GUCY2C (Guanylyl Cyclase C), also known as heat-stable enterotoxin receptor, is a type I transmembrane protein of the guanylate cyclase (gc) family that signal by producing cGMP. Guanylate cyclase C (GUCY2C) and its hormones guanylin and uroguanylin have recently emerged as one paracrine axis defending intestinal mucosal integrity against mutational, chemical, and inflammatory injury. GUCY2C murine CAR-T cells recognized and killed human colorectal cancer cells endogenously expressing GUCY2C. Thus, we have identified a human GUCY2C-specific CAR-T cell therapy approach that may be developed for the treatment of GUCY2C-expressing metastatic colorectal cancer. GUCY2C may represent a new target for anti-obesity pharmacotherapy.

Basic Information

Product Information

Source HEK293 cells **Purification** ≥ 95 % as determined by SDS-PAGE.

Calculated MW 48.66 kDa **Observed MW** 60-90 kDa

Endotoxin

Please contact us for more information.

Formulation

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial 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 freeze/thaw cycles.

Description

Recombinant Human Guanylyl cyclase C/GUCY2C Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ser24-Gln430) of human GUCY2C/Guanylyl cyclase (Accession #NP_004954.2) fused with a 6×His-Avi tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human GUCY2C at 1 µg/mL (100 µL/well) can bind GUCY2C Rabbit pAb with a linear range of 1-144 ng/mL.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

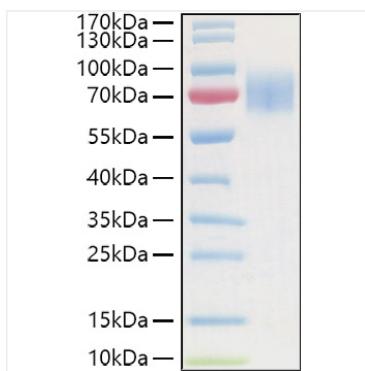
Operational Notes

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

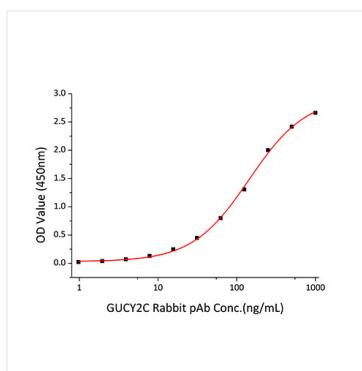
Contact

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Validation Data



Recombinant Human Guanylyl cyclase C/GUCY2C Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized recombinant Human GUCY2C at 1 μ g/mL (100 μ L/well) can bind GUCY2C Rabbit pAb with a linear range of 1-144 ng/mL.