

Recombinant Human Guanylyl cyclase C/GUCY2C Protein

Catalog No.: RP01430

Sequence Information

Species	Gene ID
Human	2984
Swiss Prot	Tags
P25092-1	C-His&Avi

Synonyms

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

Product Information

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

Calculated MW	Observed MW
48.66 kDa	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 free-thaw cycles.

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

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.

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

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

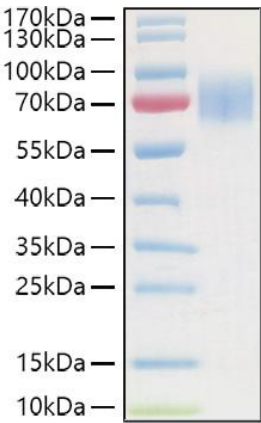
Operational Notes

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

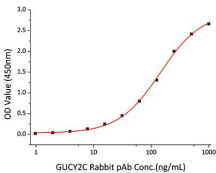
Contact

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Validation Data



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



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