PE-Labeled Human GUCY2C / Guanylyl cyclase C Protein, His Tag (Site-specific conjugation)

Catalog # GUC-HP2E3

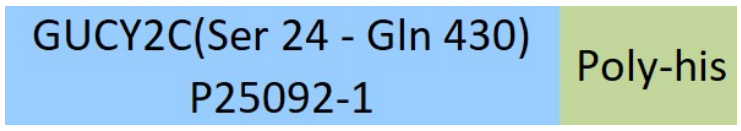
Synonym

GUCY2C,GUC2C,STAR,STA receptor,hSTAR,GC-C

Source

PE-Labeled Human GUCY2C, His Tag (GUC-HP2E3) is produced via site-specific conjugation of PE to Human GUCY2C, His Tag under optimal conditions with a proprietary technology. Human GUCY2C, His Tag is expressed from human 293 cells (HEK293). It contains AA Ser 24 - Gln 430 (Accession # P25092-1).
Predicted N-terminus: Ser 24

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 49.6 kDa.

Conjugate

PE

Excitation Wavelength: 488 nm / 561 nm

Emission Wavelength: 575 nm

Application

Please note that this product is NOT compatible to streptavidin detection system.

Formulation

Lyophilized from 0.22 μm filtered solution in PBS, 0.5% BSA, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

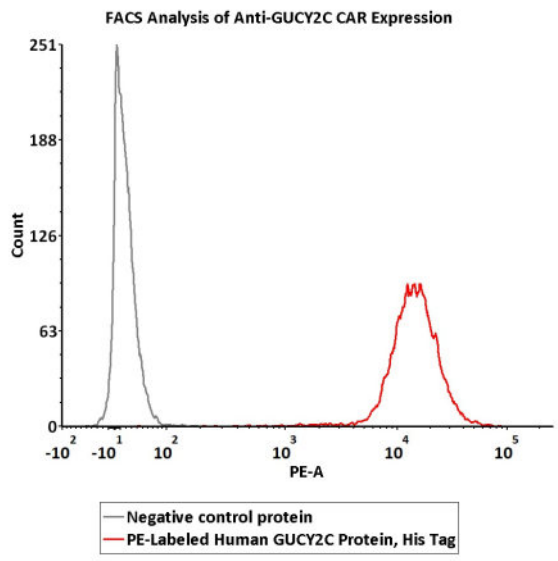
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please protect from light and avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

Bioactivity-FACS



5e5 of anti-GUCY2C CAR-293 cells were stained with 100 μL of 1:50 dilution (2 μL stock solution in 100 μL FACS buffer) of PE-Labeled Human GUCY2C, His Tag (Cat. No. GUC-HP2E3) and negative control protein respectively. PE signal was used to evaluate the binding activity (QC tested).

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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.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.