

## GUCY2C Protein, Human, Recombinant (His & Avi)

### General Information

Synonyms:	GCC;STAR;STA receptor;Guanylyl cyclase C;EC 4.6.1;GUC2C;MUCIL;GUC2CEC 4.6.1.2;GC-C;GUCY2C;DIAR6
Protein Construction:	Ser24-Gln430
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P25092-1
Molecular Weight:	48.8 kDa (predicted). Due to glycosylation, the protein migrates to 70-80 kDa based on Tris-Bis PAGE result.

### QC Testing

Biological Activity:	Immobilized Human GUCY2C, His Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Anti-GUCY2C Antibody, hFc Tag with the EC50 of 21.4ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein 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.

Reference

Magee MS, et al. Human GUCY2C-Targeted Chimeric Antigen Receptor (CAR)-Expressing T Cells Eliminate Colorectal Cancer Metastases. *Cancer Immunol Res.* 2018;6(5):509-516. doi:10.1158/2326-6066.CIR-16-0362

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481