

## HUMAN GUCY2C PROTEIN, HIS TAG

**Cat.#:** 11252

**Product Name:** Human GUCY2C Protein

**Size:** 10 µg, 50 µg and 100 µg

**Synonyms:** DIAR6;GC-C;GUC2C;MECIL;MUCIL;STAR

**Target:** GUCY2C

**UNIPROT ID:** P25092

**Description:** Recombinant human GUCY2C protein with C-terminal 6xHis tag

**Background:** This gene encodes a transmembrane protein that functions as a receptor for endogenous peptides guanylin and uroguanylin, and the heat-stable E. coli enterotoxin. The encoded protein activates the cystic fibrosis transmembrane conductance regulator. Mutations in this gene are associated with familial diarrhea (autosomal dominant) and meconium ileus (autosomal recessive). [provided by RefSeq, Nov 2016]

**Species/Host:** HEK293

**Molecular Weight:** The protein has a predicted molecular mass of 46.8 kDa after removal of the signal peptide. The apparent molecular mass of GUCY2C-His is approximately 55-130 kDa due to glycosylation.

**Molecular Characterization:** GUCY2C(Ser24-Gln430) 6×His tag

**Purity:** The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

**Formulation & Reconstitution:** Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

**Storage & Shipping:** Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

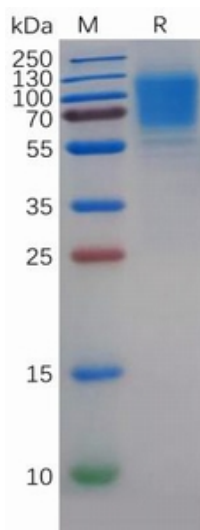


Figure 1. Human GUCY2C Protein, His Tag on SDS-PAGE under reducing condition.

## Human GUCY2C, His tagged protein ELISA

0.1  $\mu$ g of Human GUCY2C, His tagged protein per well

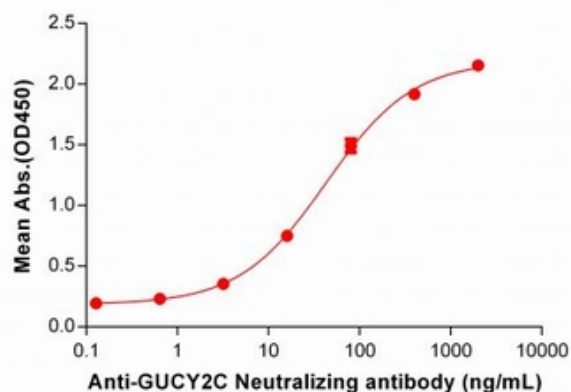


Figure 2. ELISA plate pre-coated by 1  $\mu$ g/ml (100  $\mu$ l/well) Human GUCY2C protein, His Tag (11252) can bind Anti-GUCY2C Neutralizing antibody 28073 in a linear range of 3.2-400 ng/mL.