

## GUCY2C/Guanylyl cyclase C Protein, Human (Biotinylated, HEK293, His-Avi)

Cat. No.:	HY-P77944
Synonyms:	Guanylyl cyclase C; GC-C; STAR; GUCY2C; GUC2C; STA receptor; DIAR6; EC 4.6.1; GCC; GUC2CEC 4.6.1.2; MUCIL
Species:	Human
Source:	HEK293
Accession:	P25092 (S24-Q430)
Gene ID:	2984
Molecular Weight:	55-65 kDa

### PROPERTIES

Biological Activity	Immobilized Anti-GUCY2C Antibody at 1 µg/mL (100µL/Well) on the plate. Dose response curve for Biotinylated Human GUCY2C with the EC <sub>50</sub> of 24.1-33.6 ng/mL determined by ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Normally 5% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	GUCY2C, a guanylyl cyclase, serves as a catalyst in the synthesis of cyclic (cGMP) from GTP, as evidenced by studies. Additionally, this protein functions as a receptor for the E. coli heat-stable enterotoxin, where the enterotoxin significantly stimulates the accumulation of cAMP in mammalian cells expressing GUCY2C. Furthermore, GUCY2C is activated by endogenous peptides, guanylin and uroguanylin. This multifaceted role underscores the intricate regulatory mechanisms involving GUCY2C in cellular signaling and its responsiveness to various stimuli.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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