

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

<b>Cat. No.:</b>	HY-P700415
<b>Synonyms:</b>	Guanylyl cyclase C; GC-C; STAR; GUCY2C; GUC2C; STA receptor; DIAR6; EC 4.6.1; GCC; GUC2CEC 4.6.1.2; MUCIL
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	P25092 (S24-Q430)
<b>Gene ID:</b>	2984
<b>Molecular Weight:</b>	49.6 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> S Q V S Q N C H N G   S Y E I S V L M M G   N S A F A E P L K N   L E D A V N E G L E I V R G R L Q N A G   L N V T V N A T F M   Y S D G L I H N S G   D C R S S T C E G L D L L R K I S N A Q   R M G C V L I G P S   C T Y S T F Q M Y L   D T E L S Y P M I S A G S F G L S C D Y   K E T L T R L M S P   A R K L M Y F L V N   F W K T N D L P F K T Y S W S T S Y V Y   K N G T E T E D C F   W Y L N A L E A S V   S Y F S H E L G F K V V L R Q D K E F Q   D I L M D H N R K S   N V I I M C G G P E   F L Y K L K G D R A V A E D I V I I L V   D L F N D Q Y F E D   N V T A P D Y M K N   V L V L T L S P G N S L L N S S F S R N   L S P T K R D F A L   A Y L N G I L L F G   H M L K I F L E N G E N I T T P K F A H   A F R N L T F E G Y   D G P V T L D D W G   D V D S T M V L L Y T S V D T K K Y K V   L L T Y D T H V N K   T Y P V D M S P T F   T W K N S K L P N D I T G R G P Q           </pre>
<b>Biological Activity</b>	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

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**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 cGMP 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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