

GUCY2C/Guanylyl cyclase C Protein, Rat (HEK293, Myc, His)

Cat. No.:	HY-P71666
Synonyms:	Gucy2c; Guc2c; Heat-stable enterotoxin receptor; STA receptor; EC 4.6.1.2; Guanylyl cyclase C; GC-C; Intestinal guanylate cyclase
Species:	Rat
Source:	HEK293
Accession:	P23897 (23S-429Q)
Gene ID:	25711
Molecular Weight:	Approximately 51.4 kDa

PROPERTIES

AA Sequence	<pre> S Q V R Q K C H N G T Y E I S V L M M D N S A Y K E P L Q N L R D A V E E G L D I V R K R L R E A E L N V T V N A T F I Y S D G L I H K S G D C R S S T C E G L D L L R E I T R D R K M G C V L M G P S C T Y S T F Q M Y L D T E L N Y P M I S A G S F G L S C D Y K E T L T R I L P P A R K L M Y F L V D F W K V N N A P F K T F S W N S S Y V Y K N G S E P E D C F W Y L N A L E A G V S Y F S E V L S F K D V L R R S E Q F Q E I L M G R N R K S N V I V M C G T P E T F Y N V K G D L K V A D D T V V I L V D L F S N H Y F E D D T R A P E Y M D N V L V L T L P P E K F I A N A S V S G R F P S E R S D F S L A Y L E G T L L F G H M L Q T F L E N G E S V T T P K F A R A F R N L T F Q G L E G P V T L D D S G D I D N I M C L L Y V S L D T R K Y K V L M A Y D T H K N Q T I P V A T S P N F I W K N H R L P N D V P G L G P Q </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
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 ₂ 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, plays a pivotal role in catalyzing the synthesis of cyclic (cGMP) from GTP. Acting as a receptor for the E. coli heat-stable enterotoxin, GUCY2C responds to the toxin by significantly stimulating the accumulation of cGMP in mammalian cells expressing this protein. This interaction highlights the intricate regulatory mechanisms involved in cellular signaling and emphasizes the role of GUCY2C in mediating responses to specific external stimuli.

Caution: Product has not been fully validated for medical applications. For research use only.

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