

**Product Name: Recombinant Human GUCY2C (C-6His)**  
**Catalog #: PHH2399**

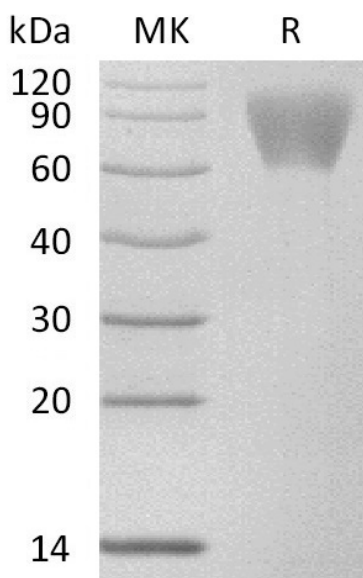


## Summary

<b>Name</b>	GUCY2C
<b>Purity</b>	Greater than 95% as determined by reducing SDS-PAGE
<b>Endotoxin level</b>	<1 EU/μg as determined by LAL test.
<b>Construction</b>	Recombinant Human Guanylyl Cyclase C is produced by our Mammalian expression system and the target gene encoding Ser24-Gln430 is expressed with a 6His tag at the C-terminus.
<b>Accession #</b>	P25092
<b>Host</b>	Human Cells
<b>Species</b>	Human
<b>Predicted Molecular Mass</b>	46.8 KDa
<b>Formulation</b>	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
<b>Stability&amp;Storage</b>	Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
<b>Reconstitution</b>	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

## SDS-PAGE image

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### Alternative Names

Heat-stable enterotoxin receptor; GUCY2C; STA receptor; hSTAR; Guanylyl cyclase C; GC-C; Intestinal guanylate cyclase; GUC2C; STAR

### Background

GUCY2C (Guanylyl Cyclase C), also known as heat-stable enterotoxin receptor, is a type/xa0I transmembrane protein of the guanylate cyclase (gc) family. GUCY2C cell surface expression is confined to luminal surfaces of the intestinal epithelium and a subset of hypothalamic neurons. The inaccessibility of GUCY2C in the apical membranes of polarized epithelial tissue, due to subcellular restriction of GUCY2C, creates a therapeutic opportunity to target metastatic lesions of colorectal origin which have lost apicalbasolateral polarization without concomitant intestinal toxicity. And that CAR-T cells targeting murine GUCY2C were effective against colorectal cancer metastatic to lung in the absence of intestinal toxicities. Human GUCY2C-targeted CAR that could potentially be employed in patients with GUCY2C-expressing gastrointestinal malignancies.

### Note

For Research Use Only , Not for Diagnostic Use.