

GUCY2C Protein, Mouse, Recombinant (His & Avi), Biotinylated

General Information

Synonyms:	EC 4.6.1;Guanylyl cyclase C;MUCIL;GUC2CEC 4.6.1.2;GUC2C;STA receptor;GCC;STAR;GC-C;DIAR6;GUCY2C
Protein Construction:	Val20-Met433
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	Q3UWA6-1
Molecular Weight:	50.01 kDa (predicted). Due to glycosylation, the protein migrates to 70-100 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95% as determined by Tris-Bis PAGE; > 90% as determined by HPLC
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 μ m filtered solution in PBS (pH 7.4).

Preparation and Storage

Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Guanylyl cyclase C (GUCY2C) has canonical centrality in defense of key intestinal homeostatic mechanisms, encompassing fluid and electrolyte balance, epithelial dynamics, antitumorigenesis, and intestinal barrier function. GUCY2C may represent a new target for anti-obesity pharmacotherapy.

Reference

Magee MS, et al. Human GUCY2C-Targeted Chimeric Antigen Receptor (CAR)-Expressing T Cells Eliminate Colorectal Cancer Metastases. *Cancer Immunol Res.* 2018;6(5):509-516. doi:10.1158/2326-6066.CIR-16-0362

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