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Cynomolgus GUCY2C Protein; His Tag

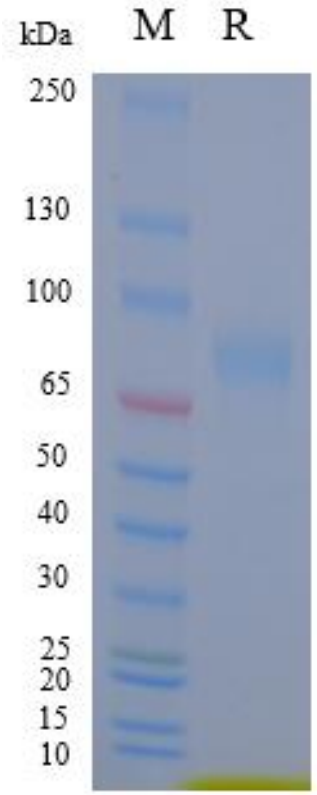
Product Information

Product Name	Cynomolgus GUCY2C Protein; His Tag
Storage temp	Store at ≤ -70℃, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Catalog# / Size	**GM-88619RP-100 / 100 μg** **GM-88619RP-1000 / 1 mg**

Protein Information

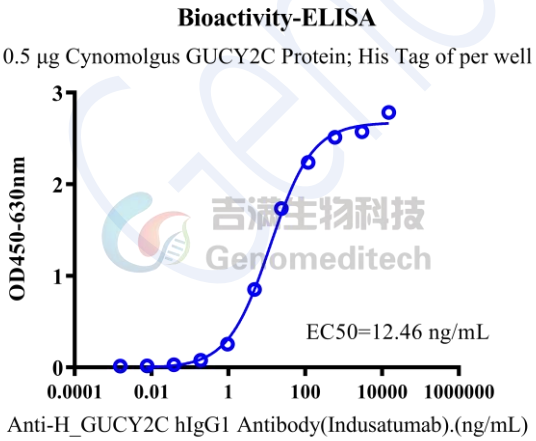
Alternative Names	GUC2C, STAR, STA receptor, hSTAR, GC-C
Source	Cynomolgus GUCY2C Protein; His Tag (GM-88619RP) is expressed from human 293 cells (HEK-293). It contains AA Ser 24 - Gln 430 (Accession # XP_005570270.1). This protein carries a His tag at the C-terminus.
Purity	> 90% as determined by SDS-PAGE
Endotoxin	< 1 EU/μg, determined by LAL gel clotting assay
Predicted Mol Mass	46.9 kDa
Formulation	Supplied as a 0.2 μm filtered solution of PBS, pH7.2-7.4.
Description	GUCY2C protein, full name Guanylyl Cyclase C (also known as Guanylate Cyclase 2C or GCC), is an important transmembrane receptor protein and a member of the guanylyl cyclase family. GUCY2C protein plays a crucial role in regulating intestinal fluid and electrolyte homeostasis, as well as maintaining the integrity of the intestinal mucosal barrier in normal physiological conditions. Abnormal expression of GUCY2C protein is closely associated with the occurrence and development of various malignant tumors, especially colorectal cancer, gastric cancer, and esophageal cancer. In tumor cells, overexpression of GUCY2C can lead to enhanced cell proliferation, migration, and anti-apoptotic capabilities through the activation of downstream signaling pathways such as cGMP/PKG, thereby promoting tumor growth and metastasis. Additionally, GUCY2C has emerged as a highly specific and sensitive diagnostic and therapeutic target for colorectal cancer due to its restricted expression pattern in intestinal epithelial cells. In summary, GUCY2C protein plays a critical role in the development and progression of gastrointestinal tumors, and is of great significance for understanding tumor pathogenesis, selecting targeted diagnostic and therapeutic strategies, and evaluating patient prognosis.

SDS-PAGE



On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

Bioactivity-ELISA



Cynomolgus GUCY2C Protein; His Tag (Catalog # GM-88619RP) was immobilized at 5 μg/ml (100 μL/well). Increasing concentrations of Anti-H_GUCY2C hIgG1 Antibody (Indusatumab) (Catalog # GM-28860AB) were added.

Version:4.0