Recombinant Mouse Gucy2c Protein, His-tagged

Cat. No. Gucy2c-11095M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse GUCY2C Protein, His Tag is expressed from CHO cells. It contains AA Val 20 - Met 433 (Accession # Q3UWA6-1). This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Val 20
Species	Mouse
Source	CHO
ProteinLength	20-433 aa
Description	GUCY2C (Guanylyl Cyclase C), also known as heat-stable enterotoxin receptor, is a type I transmembrane protein of the guanylate cyclase (gc) family that signal by producing cGMP. Guanylate cyclase C (GUCY2C) and its hormones guanylin and uroguanylin have recently emerged as one paracrine axis defending intestinal mucosal integrity against mutational, chemical, and inflammatory injury. GUCY2C murine CAR-T cells recognized and killed human colorectal cancer cells endogenously expressing GUCY2C. Thus, we have identified a human GUCY2C-specific CAR-T cell therapy approach that may be developed for the treatment of GUCY2C-expressing metastatic colorectal cancer.
Form	Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.
Molecular Mass	The protein has a calculated MW of 49.0 kDa. The protein migrates as 80-100 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin	Less than 1.0 EU/μg by the LAL method/rFC method.
Purity	>95% as determined by SDS-PAGE. >90% as determined by SEC-MALS.
Storage	This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 μg/μL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Gucy2c guanylate cyclase 2c [Mus musculus]
Official Symbol	GUCY2C
Synonyms	GUCY2C; guanylate cyclase 2c; heat-stable enterotoxin receptor; STA receptor; guanylyl cyclase C; intestinal guanylate cyclase; heat stable enterotoxin receptor; Gcc; GC-C; AI893437; MGC107510;
Gene ID	14917
mRNA Refseq	NM_001127318
Protein Refseq	NP_001120790
UniProt ID	Q3UWA6

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