

Datasheet for ABIN6973083

GUCY2C Protein (AA 24-430) (Fc Tag,AVI tag,Biotin)[Go to Product page](#)**3** Images

Overview

Quantity:	200 µg
Target:	GUCY2C
Protein Characteristics:	AA 24-430
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This GUCY2C protein is labelled with Fc Tag,AVI tag,Biotin.

Product Details

Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Characteristics:	Biotinylated Human GUCY2C / Guanylyl cyclase C Protein, Fc,Avitag™
Purity:	>90 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	GUCY2C
Alternative Name:	GUCY2C (GUCY2C Products)
Background:	GUCY2C (Guanylyl Cyclase C), also known as heat-stable enterotoxin receptor, is a type I

Target Details

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.

Molecular Weight: 74.1 kDa

NCBI Accession: [NP_004954](#)

Application Details

Comment: Ready-to-use Avitag™ biotinylated protein:
The product is exclusively produced using the Avitag™ technology. Briefly, a unique 15 amino acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli biotin ligase BirA.

This single-point enzymatic labeling technique brings many advantages for commonly used binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does NOT interfere with the target protein's natural binding activities. In addition, when immobilized on an avidin-coated surface, the protein orientation is uniform because the position of the Avi tag in the protein is precisely controlled.

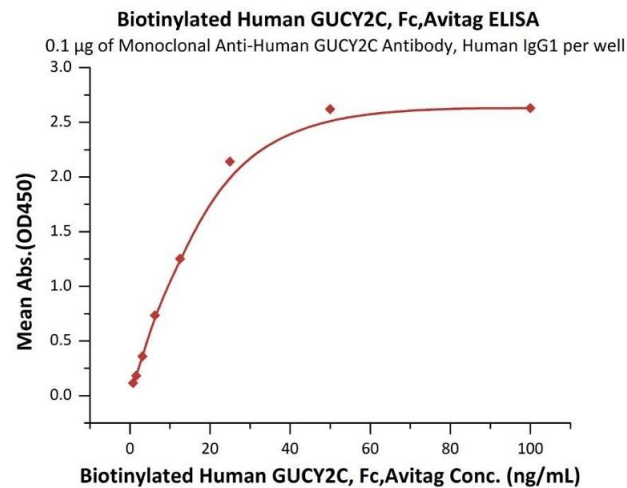
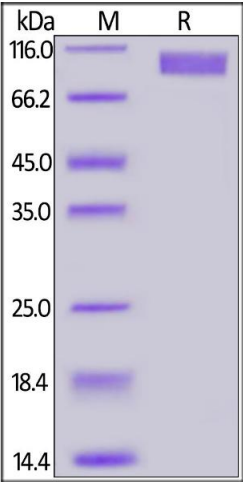
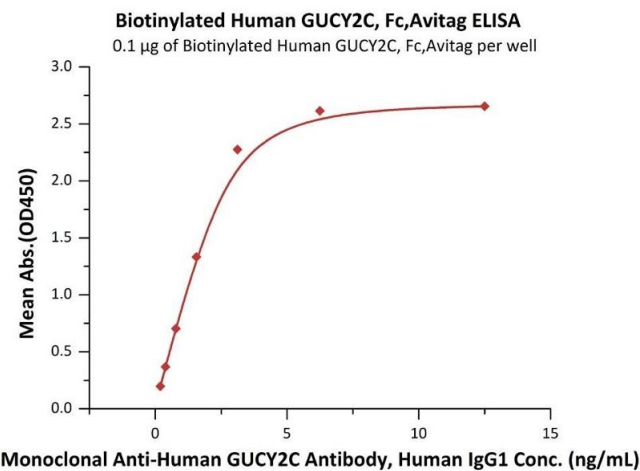
Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: PBS, pH 7.4

Storage: -20 °C



ELISA

Image 1. Immobilized Biotinylated Human GUCY2C, Fc,Avitag (ABIN6973083) at 1 µg/mL (100 µL/well) can bind Monoclonal A GUCY2C Antibody, Human IgG1 with a linear range of 0.2-3 ng/mL (Routinely tested).

SDS-PAGE

Image 2. Biotinylated Human GUCY2C, Fc,Avitag on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90 % .

ELISA

Image 3. Immobilized Monoclonal A GUCY2C Antibody, Human IgG1 at 1 µg/mL (100 µL/well) can bind Biotinylated Human GUCY2C, Fc,Avitag (ABIN6973083) with a linear range of 0.8-25 ng/mL (QC tested).