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Product Information

MemDX™ Human GUCY2C HEK293T Cell Line

Cat. No.: **S01YF-1222-KX599**
This product is for research use only and is not intended for diagnostic use.

Product Information

Target Protein
GUCY2C

Target Protein Species
Human

Accession Number
NM_004963.4

Protein Tag
Tag-free

Host Cell Type
HEK293T

Target Classification
Kinases/Enzyme

Target Family
Kinases/Enzyme

Target Research Area
Metabolic Research

Related Diseases
Meconium Ileus; Diarrhea

Product Properties

Morphology
Fibroblastoid cells growing as a monolayer

Assay Types
Drug screening and biological assays

Resistance
Puromycin

Stability

10 passages

Mycoplasma Testing

Negative

Biosafety Level

Level 1

Activity

Yes

Quantity

5x10^6 cells

Form

Frozen cells

Freeze Medium

70% DMEM + 20% FBS + 10% DMSO

Culture Medium

DMEM + 10% FBS + 1 ug/ml Puromycin

Selective Antibiotic(s)

Regular antibiotics active against mycoplasmas, bacteria and fungi.

Handling Notes

Frozen cells should be thawed immediately upon receipt and grown according to handling procedure to ensure cell viability and proper assay performance.
Note: Do not freeze the cells upon receipt as it may result in irreversible damage to the cell line.
Disclaimer: We cannot guarantee cell viability if the cells are not thawed immediately upon receipt and grown according to handling procedure.

Incubation

37°C with 5% CO_2

Applications

Drug screening and biological assays

Application Notes

Cells were plated in a 384-well plate and incubated overnight at 37°C and 5% CO_2 to allow the cells to attach and grow. Cells were then stimulated with a control for high-throughput drugs screening andfunctional assays.

Use Restrictions

These cells are distributed for research use only.

Shipping

Dry ice

Storage

Liquid nitrogen

Target

Full Name

Guanylate cyclase 2C

Introduction

This gene encodes a transmembrane protein that functions as a receptor for endogenous peptides guanylin and uroguanylin, and the heat-stable E. coli enterotoxin. The encoded protein activates the cystic fibrosis transmembrane conductance regulator. Mutations in this gene are associated with familial diarrhea (autosomal dominant) and meconium ileus (autosomal recessive).

Alternative Names

GUCY2C; GC-C; STAR; DIAR6; GUC2C; MECIL; MUCIL; heat-stable enterotoxin receptor; STA receptor; guanylyl cyclase C; intestinal guanylate cyclase; Guanylate cyclase 2C

Gene ID

2984

UniProt ID

P25092

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