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Product Information

MemDX™ Human GLP1R BHK Cell Line

Cat. No.: **S01YF-0324-KX140**
This product is for research use only and is not intended for diagnostic use.

Product Information

Target Protein
GLP1R

Target Protein Species
Human

Host Cell Type
BHK

Target Classification
GPCR

Target Family
Glucagon Family

Target Research Area
Cancer Research; Diabetes Research; Digestive and Renal Research

Related Diseases
Insulinoma; Hyperglycemia

Product Properties

Morphology
fibroblast

Assay Types
Functional assay and biological assay

Assay Reporter
CRE-Luc

Stability
20 passages

Mycoplasma Testing
Negative

Biosafety Level

Level 1

Activity

Yes

Form

Frozen cells

Freeze Medium

90% FBS+10% DMSO

Culture Medium

MEM+10% FBS+1% NEAA+1 mM sodium pyruvate+2ug/ml puromycin+800ug/ml hygromycin

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

Glucagon like peptide 1 receptor

Introduction

This gene encodes a 7-transmembrane protein that functions as a receptor for glucagon-like peptide 1 (GLP-1) hormone, which stimulates glucose-induced insulin secretion. This receptor, which functions at the cell surface, becomes internalized in response to GLP-1 and GLP-1 analogs, and it plays an important role in the signaling cascades leading to insulin secretion. It also displays neuroprotective effects in animal models. Polymorphisms in this gene are associated with diabetes. The protein is an important drug target for the treatment of type 2 diabetes and stroke. Alternative splicing of this gene results in multiple transcript variants.

Alternative Names

GLP-1; GLP-1R; GLP-1-R; GLP-1 receptor; GLP1 receptor; seven transmembrane helix receptor; GLP1R; Glucagon like peptide 1 receptor

Gene ID

2740

UniProt ID

P43220

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