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Product Information

MemDX™ mPro Rat CHRM4 Cell Line

Cat. No.: **S01YF-1122-KX64**
This product is for research use only and is not intended for diagnostic use.

Product Information

Target Protein
CHRM4

Target Protein Species
Rat

Target Classification
GPCR

Target Family
Acetylcholine Receptors

Target Research Area
CNS Research; Digestive and Renal Research

Related Diseases
Ureterolithiasis

Product Properties

Mycoplasma Testing
Negative

Biosafety Level
Level 1

Activity
Yes

Form
Frozen cells

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

Cholinergic receptor, muscarinic 4

Introduction

Enables guanyl-nucleotide exchange factor activity. Involved in response to organic substance. Located in several cellular components, including axon terminus; neuronal cell body; and postsynaptic density. Is active in glutamatergic synapse. Is integral component of postsynaptic density membrane and integral component of presynaptic membrane. Colocalizes with sarcolemma. Biomarker of congestive heart failure. Orthologous to human CHRM4 (cholinergic receptor muscarinic 4).

GPCR Signaling Pathway

The endogenous ligand is acetylcholine. Targeted protein activation can cause binding of Gi to Go protein which, in turn, cause an inhibition of adenylate cyclase and then decrease of cAMP concentration.

G coupling

Gi & Gs

Endogenous Ligand

Acetylcholine

Alternative Names

M4; muscarinic acetylcholine receptor M4; cholinergic receptor, muscarin 4

Gene ID

25111

UniProt ID

P08485

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