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Product Information

MemDX™ mPro Human SSTR5 Cell Line

Cat. No.: **S01YF-1122-KX56**
This product is for research use only and is not intended for diagnostic use.

Product Information

Target Protein
SSTR5

Target Protein Species
Human

Target Classification
GPCR

Target Family
Somatostatin Receptors

Target Research Area
Cancer Research; CNS Research

Related Diseases
Prolactinoma; Acromegaly

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

Somatostatin receptor 5

Introduction

Somatostatin and its related peptide cortistatin exert multiple biological actions on normal and tumoral tissue targets by interacting with somatostatin receptors (SSTRs). The protein encoded by this gene is one of the SSTRs, which is a multi-pass membrane protein and belongs to the G-protein coupled receptor 1 family. The activity of this receptor is mediated by G proteins which inhibit adenylyl cyclase, and different regions of this receptor molecule are required for the activation of different signaling pathways. A mutation in this gene results in somatostatin analog resistance. Alternatively spliced transcript variants have been identified in this gene.

GPCR Signaling Pathway

The endogenous ligand is Somatostatin. 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 & Go

Endogenous Ligand

Somatostatin

Alternative Names

SS-5-R; somatostatin receptor type 5; somatostatin receptor subtype 5; SSTR5; Somatostatin receptor 5

Gene ID

6755

UniProt ID

P35346