SUITE 203, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-416-1478 Fax: 1-631-207-8356
Email: info@creative-biolabs.com
www.creative-biolabs.com

Product Information

MemDX™ mPro Human S1PR1 Cell Line

Cat. No.: **S01YF-1122-KX20**
This product is for research use only and is not intended for diagnostic use.

Product Information

Target Protein
S1PR1

Target Protein Species
Human

Target Classification
GPCR

Target Family
Lysophospholipid Receptors

Target Research Area
Autoimmune Research; Inflammation Research; Cardiovascular Research

Related Diseases
Autoimmune Encephalitis; Herpes Zoster Oticus

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

Sphingosine-1-phosphate receptor 1

Introduction

The protein encoded by this gene is structurally similar to G protein-coupled receptors and is highly expressed in endothelial cells. It binds the ligand sphingosine-1-phosphate with high affinity and high specificity, and suggested to be involved in the processes that regulate the differentiation of endothelial cells. Activation of this receptor induces cell-cell adhesion. Alternative splicing results in multiple transcript variants.

GPCR Signaling Pathway

The endogenous ligand is sphingosine-1-phosphate. 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

Sphingosine-1-phosphate

Alternative Names

EDG1; S1P1; CD363; ECGF1; EDG-1; CHEDG1; D1S3362; sphingosine 1-phosphate receptor 1; S1P receptor 1; S1P receptor Edg-1; endothelial differentiation G-protein coupled receptor 1; endothelial differentiation, sphingolipid G-protein-coupled receptor, 1; sphingosine 1-phosphate receptor EDG1; sphingosine 1-phosphate receptor Edg-1; S1PR1; Sphingosine-1-phosphate receptor 1

Gene ID

1901

UniProt ID

P21453

SUITE 203, 17 Ramsey Road, Shirley, NY 11967, USA
Tel: 1-631-416-1478 Fax: 1-631-207-8356
Email: info@creative-biolabs.com