

Product Information

MemDX™ mPro Human P2RX3 Cell Line

Cat. No.: **S01YF-1122-KX125**

This product is for research use only and is not intended for diagnostic use.

Product Information

Target Protein

P2RX3

Target Protein Species

Human

Target Classification

Ion Channel

Target Family

Others

Target Research Area

Digestive and Renal Research

Related Diseases

Low Compliance Bladder; Cystitis

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% CO₂

Applications

Drug screening and biological assays

Application Notes

Cells were plated in a 384-well plate and incubated overnight at 37°C and 5% CO₂ to allow the cells to attach and grow. Cells were then stimulated with a control for high-throughput drugs screening and functional assays.

Use Restrictions

These cells are distributed for research use only.

Shipping

Dry ice

Storage

Liquid nitrogen

Target**Full Name**

Purinergic receptor P2X 3

Introduction

This gene encodes a member of the P2X purinergic receptor (purinoceptor) gene family which includes seven members (P2RX1 - P2RX7). P2X purinoceptors are a family of cation-permeable, ligand-gated ion channels that open in response to the binding of extracellular adenosine 5'-triphosphate (ATP). The encoded protein is a subunit of the trimeric P2X3 receptor ion channel which is expressed by sensory or autonomic neurons. A deficiency of the orthologous protein in mice is associated with reduced pain-related behavior and urinary bladder hyporeflexia.

Alternative Names

P2X3; P2X purinoceptor 3; ATP receptor; P2X receptor, subunit 3; purinergic receptor P2X, ligand gated ion channel, 3; purinergic receptor P2X3; purinoceptor P2X3; P2RX3; Purinergic receptor P2X 3

Gene ID

[5024](#)

UniProt ID

[P56373](#)