

Product Information

MemDX™ Human DDR1 MC-38 Cell Line

Cat. No.: **S01YF-0324-KX108**

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

Product Information

Target Protein

DDR1

Target Protein Species

Human

Host Cell Type

MC-38

Target Classification

Kinases/Enzyme

Target Family

Kinases/Enzyme

Target Research Area

Reproductive Research

Related Diseases

Spondylometaepiphyseal Dysplasia; Pulmonary Fibrosis

Product Properties

Assay Types

Functional assay and biological assay

Mycoplasma Testing

Negative

Biosafety Level

Level 1

Activity

Yes

Form

Frozen cells

Freeze Medium

70% RPMI 1640 + 20% FBS + 10% DMSO

Culture Medium

RPMI 1640 + 10% FBS

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

Discoidin domain receptor tyrosine kinase 1

Introduction

Receptor tyrosine kinases play a key role in the communication of cells with their microenvironment. These kinases are involved in the regulation of cell growth, differentiation and metabolism. The protein encoded by this gene belongs to a subfamily of tyrosine kinase receptors with homology to Dictyostelium discoideum protein discoidin I in their extracellular domain, and that are activated by various types of collagen. Expression of this protein is restricted to epithelial cells, particularly in the kidney, lung, gastrointestinal tract, and brain. In addition, it has been shown to be significantly overexpressed in several human tumors. Alternatively spliced transcript variants encoding different isoforms have been described for this gene.

Alternative Names

DDR1; CAK; DDR; NEP; HGK2; PTK3; RTK6; TRKE; CD167; EDDR1; MCK10; NTRK4; PTK3A; epithelial discoidin domain-containing receptor 1; CD167 antigen-like family member A; PTK3A protein tyrosine kinase 3A; cell adhesion kinase; mammary carcinoma kinase 10; neuroepithelial tyrosine kinase; neurotrophic tyrosine kinase, receptor, type 4; protein-tyrosine kinase RTK-6; tyrosine kinase DDR; tyrosine-protein kinase CAK; Discoidin domain receptor tyrosine kinase 1

Gene ID

780

UniProt ID

Q08345