

Product Information

MemDX™ Human NTRK1 BaF3 Cell Line

Cat. No.: **S01YF-1222-KX833**

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

Product Information

Target Protein

NTRK1

Target Protein Species

Human

Accession Number

NM_001007792.1

Protein Tag

Tag-free

Host Cell Type

BaF3

Target Classification

Kinases/Enzyme

Target Family

Kinases/Enzyme

Target Research Area

Cancer Research; CNS Research

Related Diseases

Insensitivity To Pain; Thyroid Carcinoma

Product Properties

Morphology

Suspension

Assay Types

Drug screening and biological assays

Resistance

Puromycin

Stability

10 passages

Mycoplasma Testing

Negative

Biosafety Level

Level 1

Activity

Yes

Quantity

5x10⁶ cells

Form

Frozen cells

Freeze Medium

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

Culture Medium

RPMI 1640 + 10% FBS + NGF

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

Introduction

This gene encodes a member of the neurotrophic tyrosine kinase receptor (NTRK) family. This kinase is a membrane-bound receptor that, upon neurotrophin binding, phosphorylates itself and members of the MAPK pathway. The presence of this kinase leads to cell differentiation and may play a role in specifying sensory neuron subtypes. Mutations in this gene have been associated with congenital insensitivity to pain, anhidrosis, self-mutilating behavior, cognitive disability and cancer. Alternate transcriptional splice variants of this gene have been found, but only three have been characterized to date.

Alternative Names

NTRK1; MTC; TRK; TRK1; TRKA; Trk-A; p140-TrkA; high affinity nerve growth factor receptor; Oncogene TRK; TRK1-transforming tyrosine kinase protein; gp140trk; neurotrophic tyrosine kinase, receptor, type 1; tropomyosin-related kinase A; tyrosine kinase receptor A; Neurotrophic receptor tyrosine kinase 1

Gene ID

[4914](#)

UniProt ID

[P04629](#)