

# PathHunter® U2OS TrkC-P75 Functional Assay

Catalog Number: 93-0531C3 Lot Number: See Vial

Contents: 2 x 10<sup>6</sup> cells per vial in 1 mL

#### **Background**

PathHunter Receptor Tyrosine Kinase (RTK) Functional cell lines are engineered to co-express a ProLink™ (PK) tagged RTK, an Enzyme Acceptor (EA) tagged SH2 domain, and, in some cases, an untagged co-receptor. Activation of the RTK-PK induces receptor dimerization, leading to SH2-EA recruitment, and forcing complementation of the two β-galactosidase enzyme fragments (EA and PK). The resulting functional enzyme hydrolyzes substrate to generate a chemiluminescent signal.

## **Product Information**

Target RTK: TrkC Co-receptor: P75

**RTK Accession #:** NM\_001012338 **Accession #:** NM\_002507

**Description:** Neurotrophic tyrosine kinase receptor **Description:** nerve growth factor receptor

type 3

Kinase Species: Human
SH2 Domain: SHC1
Cell Type: U2OS

Storage: Short term (<24 h): Store at -80°C; Long term (>24 h): Store in vapor phase of liquid nitrogen.

#### **Functional Performance**

250000

Cells were plated in a 384-well plate and incubated at 37°C and 5% CO <sub>2</sub> to allow the cells to attach and grow. Cells were then stimulated with a control agonist, using the assay conditions described below. Following stimulation, signal was detected using the PathHunter Detection Kit according to the recommended protocol. Please refer to page 2 for recommended assay reagents, detection reagents, and control compounds.



10-8

10-11 10-10 10-9

NT-3 [g/mL]



Cell Number/Well: 10000

Control Agonist 1: Recombinant Human NT-3

Cell Incubation Time (hours): 24

Agonist Incubation Time (minutes): 180

Agonist Incubation Temperature (°C): RT

EC₅₀ for SH2 recruitment (ng/mL): 15.0

Signal:Background at agonist E<sub>max</sub>: 5.4



## **Passage Stability**

This cell line has been confirmed to be stable through a minimum of 10 passages with no significant drop in assay window or change in  $EC_{50}$ .

#### **Mycoplasma Testing**

This lot was tested and found to be free of mycoplasma contamination. Data available upon request.

# **Required Materials**

# The following additional materials are required but not provided:

Product Use*	Product Description	Catalog Number
Detection	PathHunter <sup>®</sup> Detection Kit	93-0001
Cell Culture	AssayComplete™ Cell Culture Kit-103	92-3103G
Cell Plating	AssayComplete™ Cell Plating 16 Reagent	93-0563R16A
Cell Detachment	AssayComplete™ Cell Detachment Reagent	92-0009
Cell Thawing	AssayComplete™ Thawing Reagent T3	92-4103TR
Cell Freezing	AssayComplete™ Freezing Reagent F3	92-5103FR

<sup>\*</sup>Please inquire about our cell line-specific AssayComplete Starter Packs to get you started with your cell culture needs.

#### **Required Antibiotics**

Antibiotic Name	Concentration (μg/mL)	Catalog Number
AssayComplete™ Puromycin	0.25	92-0028
AssayComplete™ Hygromycin B	250	92-0029
AssayComplete™ G418	500	92-0030

# **Additional Ligand Information**

Control Agonist 1: Recombinant Human NT-3 Vendor: Eurofins DiscoverX® (Catalog No. 92-1025)

Ordering: +1.510.979.1415 option 4 or e-mail CustomerServiceDRX@eurofins.com Technical support: +1.510.979.1415 option 5 or e-mail DRX\_SupportUS@eurofinsUS.com General product information: www.discoverx.com



# **Limited Use License Agreement**

These products may be covered by issued US and/or foreign patents, patent application and subject to Limited Use Label License.

Please visit discoverx.com/license for a list of products that are governed by limited use label license terms and relevant patent and trademark information.

3

Generated on: October 13, 2023