

10000

# PathHunter® U2OS FGFR1-β-Klotho Functional Assay

Catalog Number: 93-1118C3 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:FGFR1Co-receptor:β-Klotho

**RTK Accession #:** NM\_001174063 **Accession #:** NM\_175737.3

**Description:** Fibroblast growth factor receptor 1 **Description:** KLB

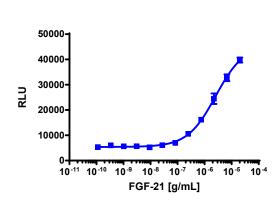
Kinase Species: Human
SH2 Domain: PLCG1
Cell Type: U2OS

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

#### **Functional Performance**

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.

Cell Number/Well:



Control Agonist 1:	FGF-21
Cell Incubation Time (hours):	0
Agonist Incubation Time (minutes):	960
Agonist Incubation Temperature (°C):	37
EC <sub>50</sub> for SH2 recruitment (ng/mL):	2561
Signal:Background at agonist E <sub>max</sub> :	7.4

For optimal results, we recommend adding the ligand immediately after plating the cells (e.g. suspension mode) and incubating ligand + cells for 16hr at 37C.



## **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 0 Reagent	93-0563R0A
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: FGF-21

Vendor: Eurofins DiscoverX<sup>®</sup> (Catalog No. 92-1231)

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 05, 2021