

# PathHunter® U2OS cINSRb Functional Assay

Catalog Number: 93-1018C3 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: cINSRb

**RTK Accession #:** XM\_005587740.1

**Description:** Insulin receptor, isoform B

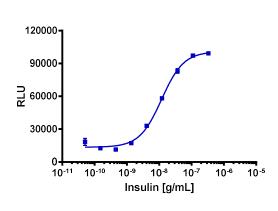
Kinase Species: Macaca fascicularis

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: | 10000 |
|-------------------|-------|
| Cell Number/Well: | 10000 |

| ontrol Agonist 1: Insulir | ո. Human |
|---------------------------|----------|
|---------------------------|----------|

| Cell Incubation Time (hours):                   |      |
|---|------|
| Agonist Incubation Time (minutes):              | 180  |
| Agonist Incubation Temperature (°C):            | RT   |
| EC <sub>50</sub> for SH2 recruitment (ng/mL):   | 11.9 |
| Signal:Background at agonist E <sub>max</sub> : | 8.7  |



## **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® 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 |  | 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    | Not Applicable        | Not Applicable |
| AssayComplete™ Hygromycin B | 250                   | 92-0029        |
| AssayComplete™ G418         | 500                   | 92-0030        |

# **Additional Ligand Information**

Control Agonist 1: Insulin, Human

Vendor: Eurofins DiscoverX® (Catalog No. 92-1088)

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 15, 2023