

# PathHunter® U2OS AVPR2(S167T) ENDO-EA Pharmacotrafficking Assay

Catalog Number: 93-0992C3 Lot Number: See Vial

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

## **Background**

PathHunter Pharmacotrafficking cell lines are engineered to co-express a ProLink<sup>™</sup> (PK)-tagged transmembrane protein retained in the ER (due to protein misfolding), and an Enzyme Acceptor (EA) tag localized to the endosomes. Binding of a chemical pharmacochaperone to the misfolded, PK-tagged protein stabilizes the protein in a conformation that enables its trafficking through the Golgi, then onward to the cell membrane. Protein re-localized to the cell membrane subsequently internalizes (either passively or actively) into EA-tagged endosomes, 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 Protein: AVPR2(S167T)

**Description:** Vasopressin receptor 2

Accession Number: NM\_000054.4

Target Species: Human
ProLink™ Tag: PK1

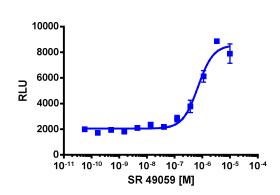
Readout: Endosome - EA

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 for at least 4 hours at 37°C and 5% CO <sub>2</sub> to allow the cells to attach. Cells were then stimulated with a control compound, 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: 5000

Control Compound: SR 49059

Compound Incubation Time (minutes): Overnight

Compound Incubation Temperature (°C): 37

EC<sub>50</sub> for Compound Stimulation (nM): 698.5

Signal:Background at Agonist  $E_{max}$ : 4.0

Important Note: AVPR2 (NM\_000054.4) mutated to AVPR2(S167T).



## **Passage Stability**

This cell line has been confirmed to be stable through 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 5 Reagent	93-0563R5A
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	Not Applicable	Not Applicable
AssayComplete™ Hygromycin B	250	92-0029
AssayComplete™ G418	500	92-0030

#### **Additional Ligand Information**

Control Compound: SR 49059

**Vendor:** DiscoverX<sup>®</sup> (Catalog No. 92-1279)

For order placement or technical support, please call 1.866.448.4864 (North America) or +44.121.260.6142 (Europe) or e-mail info@discoverx.com. For additional information, please visit discoverx.com.



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