

# PathHunter® U2OS HTR5A β-Arrestin Cell Line

Catalog Number: 93-0700C3 Lot Number: See Vial

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

#### **Background**

PathHunter  $\beta$ -Arrestin GPCR cell lines are engineered to co-express the ProLink<sup>TM</sup> (PK) tagged GPCR and the Enzyme Acceptor (EA) tagged  $\beta$ -Arrestin. Activation of the GPCR-PK induces  $\beta$ -Arrestin-EA recruitment, forcing complementation of the two  $\beta$ -galactosidase enzyme fragments (EA and PK). The resulting functional enzyme hydrolyzes substrate to generate a chemiluminescent signal.

#### **Product Information**

Target GPCR: HTR5A

**Description:** 5-hydroxytryptamine receptor 5A

**Receptor Family:** 5-Hydroxytryptamine

Coupling: Gi/Go

Accession Number: NM\_024012

GPCR Species: Human

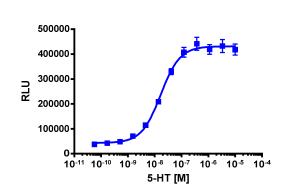
β-Arrestin Isoform: β-Arrestin-2ProLink™ Tag: ARMS2-PK2

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 overnight 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:	5000
Control Agonist:	5-HT
Agonist Incubation Time (minutes):	90
Agonist Incubation Temperature (°C):	37
EC <sub>50</sub> for Agonist Stimulation (nM):	16.7
Signal:Background at Agonist $\mathbf{E}_{\text{max}}$ :	11
Control Antagonist:	SB 699551
IC <sub>50</sub> of Antagonist (nM):	251.9



#### **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® Detection Kit	93-0001
Cell Culture	AssayComplete™ Cell Culture Kit-112	92-3112G
Cell Plating	AssayComplete™ Cell Plating 19 Reagent	93-0563R19A
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: 5-HT

Vendor: DiscoverX® (Catalog No. 92-1108)

## Additional Prolink™ Tag Description

PK2 is a slight variant of PK1 and has been shown to enhance EFC. ARMS (Arrestin Recruitment Modulating Sequence) is an 18-21 amino acid spacer between the GPCR and the PK tag and has been shown to enhance  $\beta$ -Arrestin recruitment.

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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