## DiscoverX

See Vial

Lot Number:

### PathHunter<sup>®</sup> CHO-K1 CHRM4 β-Arrestin Cell Line

Catalog Number:	93-0349C2
Contents:	2 vials, 1 x 10 <sup>6</sup> cells per vial in 1 mL

#### Background

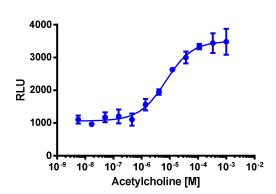
PathHunter  $\beta$ -Arrestin GPCR cell lines are engineered to co-express the ProLink<sup>TM</sup> (PK) tagged GPCR and the Enzyme Acceptor (EA) tagged  $\beta$ -Arrestin. Activation of the GPCR-PK induces  $\beta$ -Arrestin-EA recruitment, forcing complementation of the two  $\beta$ -galactosidase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

#### **Product Information**

Target GPCR:	CHRM4
Description:	Cholinergic receptor, muscarinic 4
<b>Receptor Family:</b>	Acetylcholine
Coupling:	Gs & Gi/Go
Accession Number:	NM_000741.2
GPCR Species:	Human
β-Arrestin Isoform:	β-Arrestin-2
ProLink™ Tag:	PK1
Cell Type:	CHO-K1
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  $37^{\circ}$ 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:	Acetylcholine
Agonist Incubation Time (minutes):	90
Agonist Incubation Temperature (°C):	37
$EC_{\mathfrak{so}}$ for Agonist Stimulation (nM):	7200
Signal:Background at Agonist E <sub>max</sub> :	3.1
Control Antagonist:	Atropine
IC₅₀ of Antagonist (nM):	0.77

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#### **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-107	92-3107G
Cell Plating	AssayComplete™ Cell Plating 2 Reagent 93-0563R2A	
Cell Detachment	AssayComplete™ Cell Detachment Reagent 92-0009	
Cell Thawing AssayComplete <sup>™</sup> Thawing Reagent T2 92-4102TR		92-4102TR
Cell Freezing	AssayComplete™ Freezing Reagent F2	92-5102FR

\*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	300	92-0029
AssayComplete™ G418	800	92-0030

#### **Additional Ligand Information**

Control Compound: Acetylcholine

Vendor: DiscoverX<sup>®</sup> (Catalog No. 92-1125)

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.

### DiscoverX

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