

# PathHunter® eXpress rCHRM4 CHO-K1 β-Arrestin GPCR Assay

Catalog Number: 93-0870E2 Lot Number: See Vial

1 x 10<sup>6</sup> cells per vial in 0.1 mL Contents:

## **Background**

PathHunter eXpress β-Arrestin GPCR cells are engineered to co-express the ProLink™ (PK) tagged GPCR and the Enzyme Acceptor (EA) tagged β-Arrestin. Activation of the GPCR-PK induces β-Arrestin-EA recruitment, forcing complementation of the two β-galactosidase enzyme fragments (EA and PK). The resulting functional enzyme hydrolyzes substrate to generate a chemiluminescent signal. These cells have been modified to prevent long term propagation and expansion using a proprietary compound that has no apparent effect on assay performance.

#### **Product Information**

rCHRM4 **Target GPCR:** 

**Description:** Cholinergic receptor, muscarinic 4

**Receptor Family:** Acetylcholine Gs & Gi/Go Coupling: **Accession Number:** NM 031547

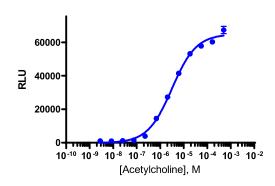
**GPCR Species:** Rat

**β-Arrestin Isoform:** β-Arrestin-2 **ProLink™ Tag:** ARMS2-PK2 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 96-well plate and stimulated with a control agonist, using the assay conditions described below. Following stimulation, signal was detected according to the recommended protocol. Please refer below for information on control compounds.



Cell Number/Well:	10000
Cell Number/Well:	1000

**Control Agonist:** Acetylcholine

AssayComplete™ Cell Plating 2 Reagent **Cell Plating Reagent:** 

Cell Incubation Time (Hours): 24 Agonist Incubation Time (Minutes): 90 Agonist Incubation Temperature (°C): 37 EC<sub>50</sub> for Agonist Stimulation (nM): 3183 Signal:Background at Agonist E<sub>max</sub>: 65.5

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## **Additional Ligand Information**

Control Agonist: Acetylcholine

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

## 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.

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