Certificate Of Analysis

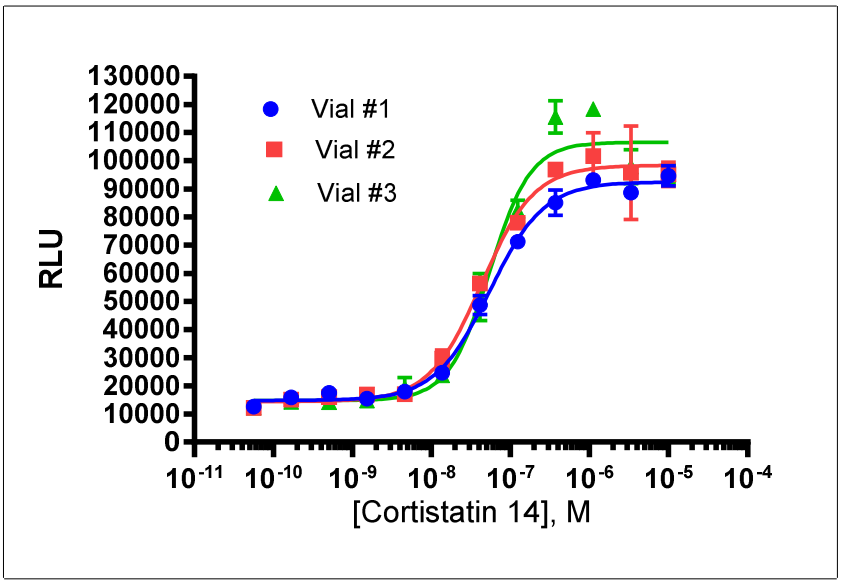
Background

PathHunter® β-Arrestin GPCR Bioassay 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.

Product Name	**PathHunter® CHO-K1 MRGPRX2 Bioassay Cells**
Cryovial Label	CHO-K1 MRGPRX2 Bioassay Cells
Bioassay Catalog #	93-0309Y2
Bioassay Manufactured Lot #	19D1901
Passage # @ Freezing	3

Assay Information	
Target 1	MRGPRX2
Target 1 Accession Number	NM_054030.2
Target 1 Description	MAS-related GPR, member X2
β-Arrestin Isoform	β-Arrestin-2
Species	Human
Cell	CHO-K1
CP Reagent	AssayComplete™ Cell Plating 2 Reagent (DiscoverX, 93-0563R2A)
Ligand	Cortistatin 14 (DiscoverX, 92-1076)
Ligand Diluent	AssayComplete™ Cell Plating 2 Reagent
Detection Kit	PathHunter® Detection Kit (DiscoverX, 93-0001)
Cell Number/Well	5,000
Cell Seeding Time (hours)	24
Ligand Inc Time (minutes)	90
Agonist Inc Temperature (°C)	37

Cell Density Information	
Cell Number (millions)	0.6
Fill Volume per Vial (mL)	0.1
Cell Viability	
Viability at Initial Thaw (%)	91
Recovery After 24 Hours (%)	114
Mycoplasma and Sterility	
Mycoplasma Test	Passed
Sterility Test	Passed
Functional Performance (3 manufactured vials)	
S:B Ratio	Vial 1 7.5
	Vial 2 7.8
	Vial 3 7.7
EC_{50} (M)	Vial 1 5.4×10^{-8}
	Vial 2 4.3×10^{-8}
	Vial 3 5.4×10^{-8}



Shipping and Storage Information	
Shipping Conditions	Dry Ice
Storage Conditions	Short term (<24 hours): -80°C; Long term (>24 hours): Vapor phase of liquid nitrogen.
Manufacturing Date	April 2019
Expiration Date	April 2022

Shelf life of over 3 years has been established for DiscoverX cell lines and Assay-Ready Cells in general, when stored in the vapor phase of liquid nitrogen.

Documented by / Date: Lici Zhu

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