Certificate Of Analysis

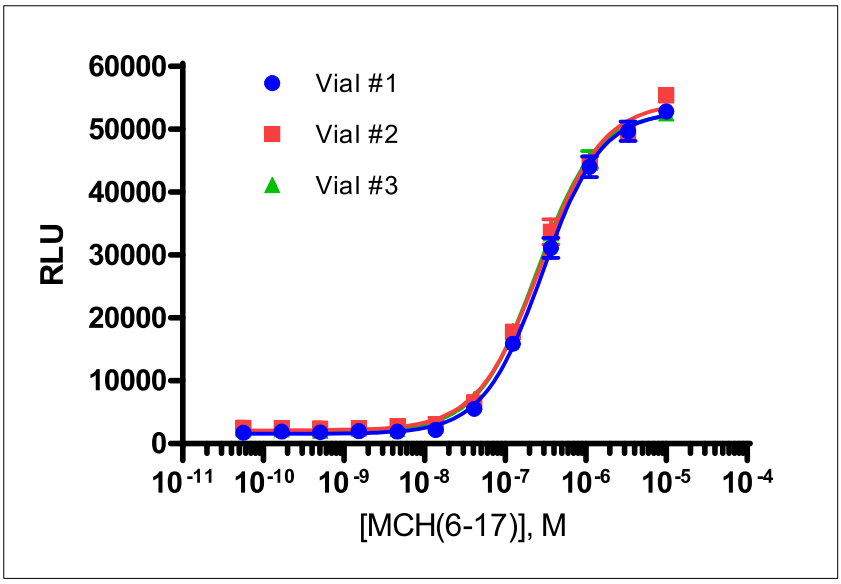
Background

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® U2OS MCHR1 Bioassay Cells**
Cryovial Label	U2OS MCHR1 Beta-Arrestin Bioassay Cells
Bioassay Catalog #	93-0940Y3
Bioassay Manufactured Lot #	22J3001
Passage # @ Freezing	5

Assay Information	
Target 1	MCHR1
Target 1 Accession Number	AY562945
Target 1 Description	Melanin concentrating hormone receptor 1
β-Arrestin Isoform	β-Arrestin-2
Target Species	Human
Cell	U2OS
CP Reagent	AssayComplete™ Cell Plating 5 Reagent (DiscoverX, 93-0563R5A)
Ligand	Melanin Concentrating Hormone (6-17) (DiscoverX, 92-1173)
Ligand Diluent	AssayComplete™ Cell Plating 5 Reagent
Detection Kit	PathHunter® Bioassay Detection Kit (DiscoverX, 93-0933)
Cell Number/Well	5,000
Cell Seeding Time (hours)	16
Ligand Inc Time (minutes)	90
Agonist Inc Temperature (°C)	37

Cell Density Information		
Cell Number (millions)	1.2	
Fill Volume per Vial (mL)	0.1	
Cell Viability		
Viability at Initial Thaw (%)	92	
Recovery After 48 Hours (%)	132	
Mycoplasma and Sterility		
Mycoplasma Test	Passed	
Sterility Test	Passed	
Functional Performance (3 manufactured vials)		
S:B Ratio	Vial 1	30.4
	Vial 2	22.0
	Vial 3	23.2
EC_{50} (M)	Vial 1	288.4×10^{-9}
	Vial 2	271.3×10^{-9}
	Vial 3	245.8×10^{-9}



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	October 2022
Expiration Date	October 2025

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: Grace Dolor

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