

See Vial

PathHunter[®] GRPR Activated GPCR Internalization U2OS Cell Line

Catalog Number:	93-0667C3	Lot Number:
	6	

Contents: 2 vials, 1 x 10⁶ cells per vial in 1 mL

Background

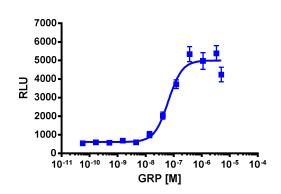
PathHunter Activated GPCR Internalization cell lines are engineered to co-express an untagged GPCR, Enzyme Acceptor (EA) tagged β -Arrestin, and a ProLinkTM (PK) tag localized to the endosomes. Activation of the GPCR induces β -Arrestin recruitment, followed by internalization of the Receptor/Arrestin-EA complex in PK-tagged endosomes. This forces complementation of the two β -galactosidase enzyme fragments (EA and PK), forming functional enzyme that hydrolyzes substrate to generate a chemiluminescent signal.

Product Information

Target GPCR:	GRPR
Description:	Gastrin releasing peptide receptor
Receptor Family:	Bombesin
Coupling:	Gq
Accession Number:	NM_005314
GPCR Species:	Human
β-Arrestin Isoform:	β-Arrestin-2
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 ₂ 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:	
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Control Agonist:	Gastrin-releasing peptide
Agonist Incubation Time (minutes):	180
Agonist Incubation Temperature (°C)	: 37
EC_{50} for Agonist Stimulation (nM):	64.3
Signal:Background at Agonist E _{max} :	10

5000

DiscoverX

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	Culture AssayComplete™ Cell Culture Kit-103	
Cell Plating	Cell Plating AssayComplete™ Cell Plating 5 Reagent 93-0563R5A	
Cell Detachment	ell Detachment AssayComplete™ Cell Detachment Reagent	
Cell ThawingAssayComplete™ Thawing Reagent T392-4103TR		92-4103TR
Cell Freezing	AssayComplete™ Freezing Reagent F3	92-5103FR

*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	0.25	92-0028
AssayComplete™ Hygromycin B	250	92-0029
AssayComplete™ G418	500	92-0030

Additional Ligand Information

Control Agonist: Gastrin-releasing peptide **Vendor:** DiscoverX[®] (Catalog No. 92-1057)

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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