Datasheet

PathHunter® IL-7 Signaling Reporter Cell Line (REH)

Catalog Number: **93-1173C055** **Lot Number:** See Vial

Contents: 3 x 10^6 cells per vial in 1 mL

Background

PathHunter Pathway Reporter cell lines are engineered to express an Enzyme Donor (ED) tagged reporter protein controlled by a pathway-inducible trascriptional response element. Pathway activation via endogenous or exogenous target results in induced expressions of the ED-tagged protein. Addition of exogenous Enzyme Acceptor (EA), and buffer, lyses the cell and forces complementation of the ED and EA enzyme fragments. This results in the formation of a functional enzyme that hydrolyzes substrate to generate a chemiluminescent signal.

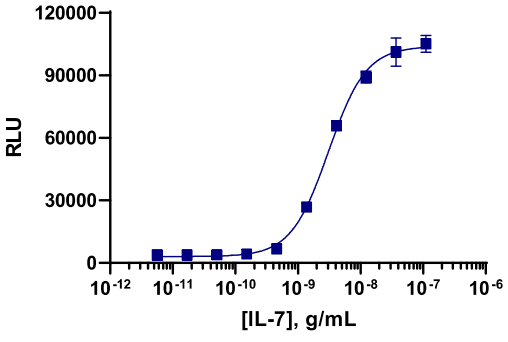
Product Information

Target Receptor	IL7R	**Co-Receptor**	IL2RG
Target Accession #	NM_002185.3	**Accession #**	NM_000206.2
Description:	Interleukin 7 receptor	**Description:**	Interleukin 2 receptor, gamma

Target Species:	Human
Response Element	STAT5
Reporter ED Tag:	ePL
Cell Type:	REH
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 incubated at 37°C and 5% CO_2 to allow the cells to attach and grow. Cells were then stimulated with a control compound, 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:	20000
Cell Seeding Time (hours):	0
Control Agonist:	IL-7
Ligand Incubation Time (minutes):	Overnight
Ligand Incubation Temperature (°C):	37
EC_{50} for compound stimulation (ng/mL):	3.1
Signal:Background at agonist E_{max}:	28.1
Detection Incubation Time (hrs.)	1

To maintain healthy and responsive REH cells during culture, always pellet the cells, resuspend cells in fresh growth media and use the cell suspension to plate in fresh media. In addition, cultures should be maintained at a density of <1.5 million cells/mL. 1 hr detction is recommended but plates can also be re-read after overnight detection mix incubation.

Passage Stability

This cell line has been confirmed to be stable through a minimum of 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® ProLabel®/ProLink™ Detection Kit	93-0812
Cell Culture	AssayComplete™ Cell Culture Kit-101	92-3101G
Cell Plating	AssayComplete™ Cell Plating 0 Reagent	93-0563R0A
Cell Detachment	Not Applicable	Not Applicable
Cell Thawing	AssayComplete™ Thawing Reagent T6	92-4106TR
Cell Freezing	AssayComplete™ Freezing Reagent F5	92-5105FR

*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	Not Applicable	Not Applicable
AssayComplete™ Blasticidin	Not Applicable	R21001 (Invitrogen)

Additional Ligand Information

Control Agonist: IL-7

Vendor: Peprotech (Catalog No. 200-07) or equivalent

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