

Lot Number:

DiscoverX

See Vial

PathHunter[®] U2OS RANK Signaling Reporter Cell Line

Catalog Number: 93-1156C3

Contents: 1×10^6 cells per vial in 1 mL

Background

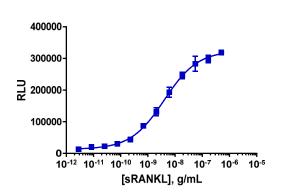
PathHunter Pathway Reporter cell lines are engineered to express an Enzyme Donor (ED) tagged reporter protein controlled by a pathway-inducible trascriptional response element. Pathway activation via endogenous or exogenous target results in induced expressions of the ED-tagged protein. Addition of exogenous 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	RANK
Target Accession #	NM_003839.3
Description:	Tumor necrosis factor receptor superfamily, member 11a
Target Species:	Human
Response Element	NF-ĸB
Reporter ED Tag:	ePL
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 96-well plate and incubated at 37° C and 5% CO₂ 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:	5000
Cell Seeding Time (hours):	4
Control Agonist:	soluble RANKL
Ligand Incubation Time (minutes):	960
Ligand Incubation Temperature (°C):	37
EC_{50} for compound stimulation (ng/mL)	: 4.0
Signal:Background at agonist E _{max} :	24.0
Detection Incubation Time (hrs.)	1

Datasheet



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-103	92-3103G
Cell Plating	AssayComplete™ Cell Plating 22 Reagent	93-0563R22A
Cell Detachment	AssayComplete™ Cell Detachment Reagent	92-0009
Cell Thawing	AssayComplete™ Thawing Reagent T3	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	Not Applicable	Not Applicable
AssayComplete™ Blasticidin	N/A	R21001 (Invitrogen)

Additional Ligand Information

Control Agonist: soluble RANKL

Vendor: Eurofins DiscoverX[®] (Catalog No. 92-1282M)

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