PathHunter® eXpress ErbB2/ErbB4 Dimerization Assay

Catalog Number: **93-0960E3** **Lot Number:** See Vial

Contents: 1 x 10^6 cells per vial in 0.1 mL

Background

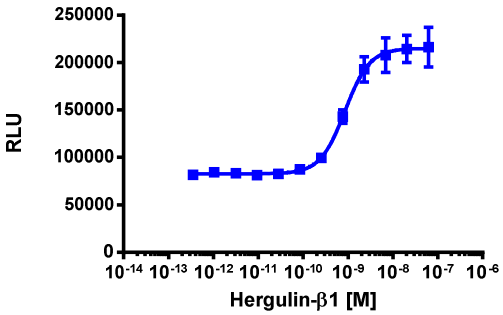
The PathHunter® Dimerization assay detects ligand induced dimerization of two subunits of a receptor-dimer pair. The cells have been engineered to co-express one receptor subunit fused to Enzyme Donor (ED), and a second dimer partner fused to Enzyme Acceptor (EA). Cytoplasmic tail may have been deleted from one or both receptors. Binding of an agonist to one receptor subunit induces it to interact with its dimer partner, forcing complementation of the two enzyme fragments. This results in the formation of a functional enzyme that hydrolyzes a substrate to generate a chemiluminescent signal. These cells have been modified to prevent long term propagation and expansion using a proprietary compound that has no apparent effect on assay performance.

Product Information

Target Protein 1:	ErbB2	**Target Protein 2:**	ErbB4
Amino Acid Range:	1 - 686	**Amino Acid Range:**	1 - 686
Accession #:	NM_004448.2	**Accession #:**	NM_005235.2
Description:	v-erb-b2 erythroblastic leukemia viral oncogene homolog 2	**Description:**	v-erb-b2 erythroblastic leukemia viral oncogene homolog 4
Target Tag 1:	PK1	**Target Tag 2:**	EA
Target Species:	Human		
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/5% CO_2 for the Cell Seeding Time indicated below. Cells were then stimulated with a control compound using the assay conditions described below. Following stimulation, signal was detected using the PathHunter Detection Reagents provided in the kit according to the recommended protocol. For a detailed protocol, please refer to the user manual.



Cell Number/Well:	10000
Cell Plating Reagent:	AssayComplete™ Cell Plating 5 Reagent
Cell Seeding Time (Hours):	48
Control Compound:	Recombinant Human Heregulinβ-1
Compound Incubation Time (minutes):	Overnight
Compound Incubation Temperature (°C):	37
EC_{50} for Compound Stimulation (ng/mL):	0.9
Signal:Background at Compound E_{max}:	2.6

Additional Ligand Information

Control Compound: Recombinant Human Heregulinβ-1

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