

DiscoverX

PathHunter[®] eXpress BMPR1A/BMPR2 Dimerization Assay

Catalog Number: 93-1006E3

Lot Number:

See Vial

Contents: 1 x 10⁶ cells per vial in 0.1 mL

Background

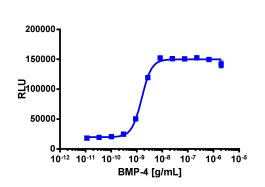
The PathHunter[®] Dimerization assay detects ligand induced dimerization of two subunits of a receptor-dimer pair. The cells have been engineered to co-express one receptor subunit fused to Enzyme Donor (ED), and a second dimer partner fused to Enzyme Acceptor (EA). Cytoplasmic tail may have been deleted 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:	BMPR1A	Target Protein 2:	BMPR2
Amino Acid Range:	1 - 181	Amino Acid Range:	1 - 181
Accession #:	NM_004329.2	Accession #:	NM_001204.6
Description:	bone morphogenetic protein receptor, type IA	Description:	Bone Morphogenetic Protein Receptor, Type II
Target Tag 1:	EA	Target Tag 2:	PK1
Target Species:	Human		
Cell Type:			
Cen Type.	U2OS		

Functional Performance

Cells were plated in a 96-well plate and incubated at 37° C/5% CO₂ 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 0 Reagent	
Cell Seeding Time (Hours):	24	
Control Compound:	BMP-4	
Compound Incubation Time ((minutes): 360	
Compound Incubation Tempo	erature (°C): 37	
EC₅₀ for Compound Stimulati	on (nM): 1.6	
Signal:Background at Compo	bund E _{max} : 8.4	



Additional Ligand Information

Control Compound: BMP-4 Vendor: Eurofins DiscoverX[®] (Catalog No. 92-1267)

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