

PathHunter[®] eXpress PRLR-JAK1 Functional Assay

Catalog Number: 9	93-0686E3
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Lot Number:

See Vial

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

Background

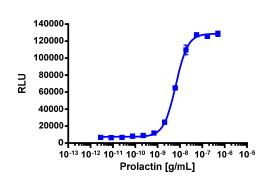
PathHunter CTK Functional cell lines are engineered to co-express a ProLink[™] (PK) tagged Cytokine receptor, an untagged CTK, and an Enzyme Acceptor (EA) tagged SH2 domain. Activation of the Receptor-PK induces phosphorylation of the receptor by the CTK. This leads to SH2-EA recruitment, forcing complementation of the two β-galactosidase enzyme fragments (EA and PK). The resulting functional enzyme hydrolyzes 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

CTK Receptor:	PRLR	Target CTK:	JAK1
Accession #:	NM_000949	CTK Accession #	: NM_002227
Receptor Description:	Prolactin receptor	CTK Description:	Janus kinase 1
Receptor Species:	Human	CTK Species:	Human
SH2 Domain:	PLCG2		
Cell Type:	U2OS		
Storage:	Short term (<24 h): Store at -80°C; L	ong term (>24 h): St	ore in vapor phase of liquid nitrogen.

Functional Performance

Cells were plated in a 96-well plate and incubated for 24 hours at 37° C and 5% CO₂. Cells were then stimulated with a control agonist, 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.



Control Agonist:	Recombinant Human Prolactin		
Cell Plating Reagent:	AssayComplete™ Cell Plating 0 Reager		
Ligand Incubation Time (minu	ites):	180	
Ligand Incubation Temperatur	re (°C):	RT	
EC ₅₀ for SH2 recruitment (ng/n	nL):	6.5	
Signal:Background at agonist	E E _{max} :	19.2	



DiscoverX

Additional Information

Control Agonist: Recombinant Human Prolactin **Vendor:** Eurofins DiscoverX[®] (Catalog No. 92-1144)

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