

Lot Number:

See Vial

PathHunter[®] eXpress FGR Activity Assay

Catalog Number: 93-0884E3

Contents:

 $1 ext{ x } 10^6 ext{ cells per vial in 0.1 mL}$

Background

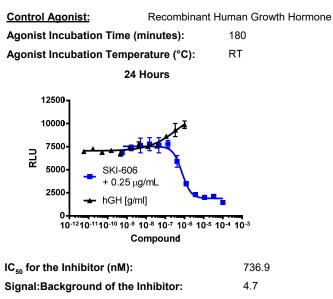
PathHunter CTK Activity cell lines are engineered to express the catalytic domain from CTK of interest fused to the cytokine receptor binding domain (CRBD) of a JAK kinase. The cells co-express an Enzyme Acceptor (EA) tagged SH2 domain and a ProLinkTM (PK) tagged Cytokine receptor. The CRBD is designed to bind the CTK catalytic domain to the receptor-PK. Activation of the cytokine receptor-PK induces receptor phosphorylation by the CTK catalytic domain. 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.

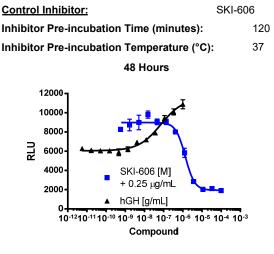
Product Information

Target Kinase Domain:	FGR	Amino Acid Range: (aa 263 - 529)	
Description:	Gardner-Rasheed feline sarcoma viral (v-fgr) oncogene homolog		
Target Accession #:	NM_005248.2		
Species:	Human		
CRBD:	JAK2 [/	Accession #: BC039695] Amino Acid Range: (aa 1 - 824)	
SH2 Domain:	PLCG1		
Cell Type:	U2OS		
Cell Plating Reagent:	AssayComplete™ Cell Plating 16 Reagent		
Storage:	Sho	ort 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 for 24 or 48 hours at 37° C and 5% CO₂. Cells were then pre-incubated with inhibitor, followed by stimulation with the control agonist using the assay conditions described below. Following agonist 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.





IC ₅₀ for the Inhibitor (nM):	1341
Signal:Background of the Inhibitor:	4.4



DiscoverX

Additional Information

Control Agonist: Recombinant Human Growth Hormone Vendor: Eurofins DiscoverX[®] (Catalog No. 92-1338) Control Inhibitor SKI-606

Vendor: DiscoverX® (Catalog No. S1014)

Limited Use License Agreement

These products may be covered by issued US and/or foreign patents, patent application and subject to Limited Use Label License.

Please visit discoverx.com/license for a list of products that are governed by limited use label license terms and relevant patent and trademark information.

Ordering: +1.510.979.1415 option 4 or e-mail CustomerServiceDRX@eurofins.com Technical support: +1.510.979.1415 option 5 or e-mail DRX_SupportUS@eurofinsUS.com General product information: www.discoverx.com