

Lot Number:

DiscoverX

See Vial

PathHunter[®] eXpress TYK2 Activity Assay

Catalog Number: 93-0875E3

Contents:

1 x 10⁶ cells per vial in 0.1 mL

Background

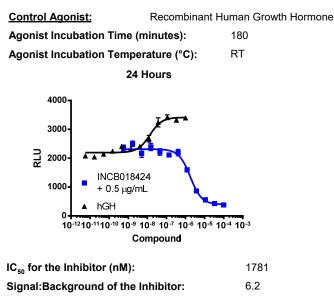
PathHunter CTK Activity cell lines are engineered to express the catalytic domain from CTK of interest fused to the cytokine receptor binding domain (CRBD) of a JAK kinase. The cells co-express an Enzyme Acceptor (EA) tagged SH2 domain and a ProLinkTM (PK) tagged Cytokine receptor. The CRBD is designed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

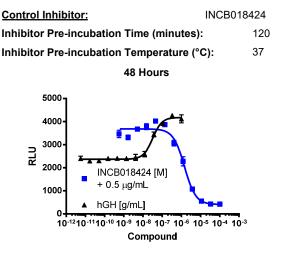
Product Information

Target Kinase Domain:	TYK2 Amino Acid Range: (aa 882 - 1187)
Description:	Tyrosine kinase 2
Target Accession #:	NM_003331.4
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:	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 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):	1451
Signal:Background of the Inhibitor:	8.9



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Additional Information

Control Agonist: Recombinant Human Growth Hormone Vendor: Eurofins DiscoverX[®] (Catalog No. 92-1338) Control Inhibitor INCB018424

Vendor: DiscoverX® (Catalog No. CT-INCB)

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