

# PathHunter® eXpress CSF3R-JAK1 Functional Assay

Catalog Number: 93-0809E3 Lot Number: See Vial

Contents: 1 x 10<sup>6</sup> 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: CSF3R Target CTK: JAK1

Accession #: NM\_000760 CTK Accession #: NM\_002227

Receptor Description: colony stimulating factor 3 receptor CTK Description: Janus kinase 1

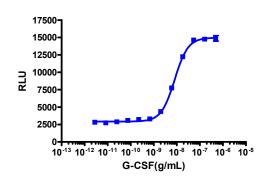
Receptor Species: Human CTK Species: Human

SH2 Domain: SHC1
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 for 24 hours at 37°C and 5% CO<sub>2</sub>. 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 G-CSF

**Cell Plating Reagent:** AssayComplete™ Cell Plating 16 Reagent

Generated on: September 30, 2020 1

Ligand Incubation Time (minutes):180Ligand Incubation Temperature (°C):RT $EC_{50}$  for SH2 recruitment (ng/mL):8.4Signal:Background at agonist  $E_{max}$ :5.4



## **Additional Information**

Control Agonist: Recombinant Human G-CSF Vendor: Eurofins DiscoverX® (Catalog No. 92-1143)

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