

PathHunter® eXpress GHR-JAK1 Functional Assay

Lot Number: Catalog Number: 93-0756E3 See Vial

Contents: 1 x 10⁶ 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 βgalactosidase 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

GHR JAK1 **CTK Receptor:** Target CTK:

Accession #: CTK Accession #: NM 002227

Receptor Description: CTK Description: Janus kinase 1

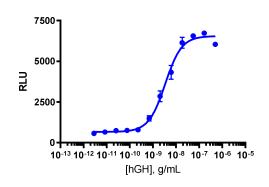
Receptor Species: CTK Species: Human

SH2 Domain: PLCG1 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 2. 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 Growth Hormone AssayComplete™ Cell Plating 0 Reagent **Cell Plating Reagent:**

Ligand Incubation Time (minutes): 180 RT **Ligand Incubation Temperature (°C):** EC₅₀ for SH2 recruitment (ng/mL): 3.4 Signal:Background at agonist E_{max}: 11.8

Generated on : August 18, 2021



Additional Information

Control Agonist: Recombinant Human Growth Hormone

Vendor: Eurofins DiscoverX® (Catalog No. 92-1338)

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