

DiscoverX

# SPRINTer™ BRAF(V600E) Protein Turnover Biosensor Cell Line (A375)

### Catalog Number: 91-1008C057

Lot Number: See Vial

**Contents:**  $2 \times 10^6$  cells per vial in 1 mL

## Background

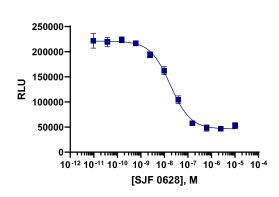
SPRINTer Protein Turnover Biosensor cell lines are engineered to introduce the EFC Enzyme Donor (ED) into the endogenous locus of the desired target gene. Expression of the target gene from its native promoter results in production of an ED-tagged target protein. Treatment of the engineered Biosensor cells with therapeutics that promote turnover of the target protein produces a decrease in EFC signal. Addition of exogenous Enzyme Acceptor (EA) and buffer lyses the cell and forces complementation of the ED and EA enzyme fragments. This results in the formation of a functional enzyme that hydrolyzes substrate to generate a chemiluminescent signal, allowing quantitation of drug-induced changes in ED-target protein levels.

### **Product Information**

| Cell Type:      | A375   |
|-----------------|--|
| Species:        | Human  |
| Target Protein: | BRAF(V600E)                                      |
| Description:    | B-Raf proto-oncogene,<br>serine/threonine kinase |
| Target Tag:     | ePL  |
| Tag Location:   | С  |

## **Functional Performance**

Cells were plated in a 384-well plate and incubated at  $37^{\circ}$ C and 5% CO<sub>2</sub> to allow the cells to attach and grow. Cells were then stimulated with a control compound, using the assay conditions described below. Following stimulation, signal was detected using the PathHunter Detection Kit according to the recommended protocol. Please refer to page 2 for recommended assay reagents, detection reagents, and control compounds.



| Cell Number/Well:                                   | 5000     |
|---|----------|
| Cell Seeding Time (hours):                          | 0        |
| Control Agonist:                                    | SJF 0628 |
| Ligand Incubation Time (minutes):                   | 1080     |
| Ligand Incubation Temperature (°C):                 | 37       |
| $EC_{\mathfrak{so}}$ for compound stimulation (nM): | 18       |
| Signal:Background at agonist E <sub>max</sub> :     | 4.2      |
|   |          |

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## **Passage Stability**

This cell line has been confirmed to be stable through a minimum of 10 passages with no significant drop in assay window or change in  $EC_{50}$ .

## **Mycoplasma Testing**

This lot was tested and found to be free of mycoplasma contamination. Data available upon request.

## **Required Materials**

## The following additional materials are required but not provided:

| Product Use*    | Product Description   | Catalog Number |
|-----------------|---|----------------|
| Detection       | PathHunter <sup>®</sup> ProLabel <sup>®</sup> /ProLink™ Detection Kit | 93-0812        |
| Cell Culture    | AssayComplete™ Cell Culture Kit-105                                   | 92-3105G       |
| Cell Plating    | AssayComplete™ Cell Plating 0 Reagent                                 | 93-0563R0A     |
| Cell Detachment | AssayComplete™ Cell Detachment Reagent                                | 92-0009        |
| Cell Thawing    | AssayComplete™ Thawing Reagent T1                                     | 92-4101TR      |
| Cell Freezing   | AssayComplete™ Freezing Reagent F1                                    | 92-5101FR      |

\*Please inquire about our cell line-specific AssayComplete Starter Packs to get you started with your cell culture needs.

## **Required Antibiotics**

| Antibiotic Name             | Concentration (µg/mL) | Catalog Number |
|-----------------------------|-----------------------|----------------|
| AssayComplete™ Puromycin    | Not Applicable        | Not Applicable |
| AssayComplete™ Hygromycin B | Not Applicable        | Not Applicable |
| AssayComplete™ G418         | Not Applicable        | Not Applicable |

### **Additional Ligand Information**

Control Agonist: SJF 0628

Vendor: Tocris (Catalog No. 7463/5) or equivalent

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



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