

## GTPase Activity Assay Kit

### Product Information

#### Common Name

GTPase

**Cat.No.** Kit-2528

#### Product Overview

The GTPase Assay kit is a homogeneous, bioluminescent assay that is used to measure the activities of GTPases and their associated proteins (GEFs and GAPs) in vitro. The assay quantitates the amount of GTP remaining after a GTPase reaction.

With the GTPase Assay kit, you can measure intrinsic GTPase activity, GAP-stimulated GTPase activity, GAP activity and GEF activity. The kit contains optimized reaction buffers, GTPase/GAP Buffer and GEF buffer, for performing GTPase and GAP reactions, and GEF reactions, respectively.

#### Storage

Store at -30°C to -10°C.

#### Size

1,000 assays

#### Kit Components

rGTP, 10mM 50µl

DTT, 100mM 100µl

GTPase/GAP Buffer 5ml

GEF Buffer 5ml

GTPase Buffer 5ml

GTPase Reagent, 500X 15µl

Detection Reagent 10ml

ADP, 10mM 0.5ml

#### Features & Benefits

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## GTPase Activity Assay Kit

Simple add-and-read format

Suitable for 96-, 384- and 1536-well plates

Low background and large dynamic range

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### Assay Protocol

The GTPase Assay kit measures GTPase activity by detecting the amount of GTP remaining after GTP hydrolysis in a GTPase reaction. After the GTPase reaction, addition of the GTPase Reagent converts any remaining GTP into ATP, which is converted to a luminescent signal upon addition of the Detection Reagent.

GTPase, GAP and GEF activity is inversely correlated to the amount of light produced. A highly active GTPase hydrolyzes more GTP, reducing the amount of ATP produced from GTP and reducing light output. A less active GTPase hydrolyzes less GTP, leaving a larger amount of GTP to be converted to ATP and producing more light.

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