

## **Beta Galactosidase ( $\beta$ -Gal) Activity Assay Kit (Fluorometric)**

### **Product Information**

#### **Cat**

Kit-1093

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#### **Description**

Beta Galactosidase ( $\beta$ -Gal, EC: 3.2.1.23) is an enzyme which hydrolyzes the  $\beta$ -galactosides into monosaccharides.  $\beta$ -Gal is widely used as a reporter gene in the field of molecular biology. Senescence Associated  $\beta$ -Gal (SA- $\beta$ -Gal) is an isoform of  $\beta$ -Gal which has the optimal activity at pH 6.0, and is mostly used as a biomarker for senescent cells.  $\beta$ -Gal is an essential enzyme in humans and its deficiency results in Morquio's Syndrome, a severe birth defect. Beta Galactosidase Activity Assay kit provides a quick and easy way for monitoring Beta Galactosidase activity in a variety of samples. In this kit, Beta Galactosidase hydrolyses a non-fluorescent substrate to generate a strong fluorescent product. The assay is simple, sensitive, and high-throughput adaptable. Detection limit: < 0.1 mU.

#### **Applications**

Measurement of  $\beta$ -Galactosidase activity in various samples

#### **Storage**

-20°C

#### **Shipping**

Gel Pack

#### **Size**

100 assays

#### **Kit Components**

$\beta$ -Gal Assay Buffer;  $\beta$ -Gal Substrate (in DMSO); Fluorescein Standard (1 mM);  $\beta$ -Gal Positive Control



## Beta Galactosidase ( $\beta$ -Gal) Activity Assay Kit (Fluorometric)

**Detection method** Fluorescence (Ex/Em = 480/520 nm)

### Features & Benefits

Quick and easy method to measure Beta Galactosidase activity.

Detection limit: < 0.1 mU

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