CREATIVE BIOMART®
Assay Kit

Beta Galactosidase Inhibitor Screening Kit

Product Information

Cat.No. Kit-2136

Product Overview

Beta-Galactocidase Inhibitor Screening Kit, β-Gal converts β-Gal substrate to give an intensely fluorescent product (Ex/Em = 480/520 nm). In the presence of a β-Gal inhibitor, the reaction is impeded/abolished resulting in decrease or total loss of fluorescence. This assay kit can be used to screen/study/characterize the potential inhibitors of Beta Galactosidase. The assay is simple, high-throughput adaptable and can be performed within 30 min.

Size

100 assays

Description

Introduction: Beta Galactosidase (β-Gal, EC: 3.2.1.23) is an enzyme which hydrolyzes the β-galactosides into monosacchanides. β-Gal is widely used as a reporter gene in the field of molecular biology. Senescence Associated β-Gal (SA-β-Gal) is an isoform of β-Gal which has the optimal activity at pH 6.0, and is mostly used as a biomarker for senescent cells (K802). β-Gal is an essential enzyme in humans and its deficiency results in Morquio"s Syndrome, a severe birth defect. β-Gal can also be used as a tool to study protein-protein interaction.

Applications

Screening/characterizing/studying potential inhibitors of Beta-Galactosidase

Storage

Store kit at -20°C, protected from light. Briefly centrifuge small vials prior to opening. Read entire protocol before performing the assay.β-Gal Assay Buffer: Bring to room temperature before use. Store at -20°C or 4°C.β-Gal Substrate: Thaw at room temperature. Aliquot and store at -20°C.β-Galactosidase: Reconstitute with 550 µl β-Gal Assay Buffer. Aliquot and store at -20°C. Avoid freeze/thaw. Keep on ice while in use. Use within two months.β-Gal Inhibitor Control: Reconstitute with 200 µl dH2O. Aliquot and store at -20°C. Avoid freeze/thaw. Keep on ice

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Kit Components

β-Gal Assay Buffer: 25 mlβ-Gal Substrate (in DMSO): 200 µlβ-Galactosidase: 1 vialβ-Gal Inhibitor Control: 1 vial

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

Compatible Sample Types

Variable: Inhibitors, small molecules, proteins, etc.

Features & Benefits

• Simple and High throughput adaptable• 30 minutes short protocol• Detect using a fluorometer or fluorescence microplate reader.

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