

Beta Galactosidase Inhibitor Screening Kit

Cat. No. Kit-2136 **Lot. No.** (See product label)

SPECIFICATION

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 $\mu\beta$ -Gal Assay Buffer. Aliquot and store at -20°C. Avoid freeze/thaw. Keep on ice while in

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	use. Use within two months. β -Gal Inhibitor Control: Reconstitute with 200 μ dH ₂ O. Aliquot and store at -20°C. Avoid freeze/thaw. Keep on ice while in use. Use within two months.
Kit Components	β -Gal Assay Buffer: 25 ml β -Gal Substrate (in DMSO): 200 μ l β -Galactosidase: 1 vial β -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.