CREATIVE BIOMART®
Assay Kit

Dual Luciferase Reporter Gene Assay Kit

Product Information

Cat.No. Kit-0525

Product Overview

Dual Luciferase Reporter Gene Assay Kit is used for sequential measuring the activity of two different luciferases, firefly (FFL) and Renilla (RL), in a single sample.

Description

The accuracy of reporter assays can be improved by utilizing a dual reporter system. One of the reporter genes is correlated with the promoter of interest and is used to assess the effects of specific experimental conditions, while the second reporter is used as a control and serves as a baseline response. The Dual Luciferase Reporter Gene Assay Kit allows for the sequential measurement of the activity of two different luciferases, firefly (FFL) and Renilla (RL), in a single sample. The firefly luciferase luminescence is measured first by addition of the FFL Reagent. Next, the RL Reagent is added to the same well. The RL Reagent simultaneously quenches the firefly luciferase luminescence and initiates the Renilla luciferase reaction. The light production of both reactions can be conveniently measured on a luminometer.

Applications

Gene Regulation: gene expression level, characterization of promoter activity, modulation of gene expression by receptors, transcription factors and small molecules.Drug Discovery: high-throughput screen for gene modulators.

Usage

For research use only (RUO)

Storage

Store all Reagents at -20°C. Shelf life: 12 months after receipt.

Kit Components

Lysis Buffer 25 mLAssay Buffer 25 mLFFL Reagent 25 mgRL Reagent 400 mg

Detection method Luminescence

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Compatible Sample Types

Cell

Features & Benefits

High sensitivity and wide detection range: detection of as little of 2 fg luciferase.Compatible with routine laboratory and HTS formats: assays can be performed in tubes or microplates, and measured with any luminometer. Can be readily automated on HTS liquid handling systems.Fast and convenient: three step assay allows detection of dual luciferase levels within 20 minutes.

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