CREATIVE BIOMART®
Assay Kit

Firefly Luciferase Assay Kit

Product Information

Product Overview

Reporter gene assays are widely used in studies of eukaryotic gene expression regulation, with bioluminescence assays being one of the most common and effective approaches. Luciferase catalyzes the conversion of luciferin and emits photons during the reaction.
This product provides a rapid, sensitive, and stable method for detecting firefly luciferase reporter gene expression in mammalian cells. It can detect as little as 10⁻²⁰ mol of luciferase and exhibits excellent linearity over a wide enzyme concentration range from 10⁻¹⁴ to 10⁻²⁰ mol.

Size

20t

Storage

Store at –20 °C.

Technical Notes

Briefly centrifuge the product before use to collect contents at the bottom of the tube.
Enzyme activity is temperature-sensitive; allow all reagents to equilibrate to room temperature before use.
When using a single-tube luminometer, keep the interval between reagent mixing and measurement consistent for all samples.
The maximum emission wavelength of firefly luciferase bioluminescence is 560 nm.
White opaque plates are recommended to minimize well-to-well crosstalk.
Wear laboratory coats and disposable gloves for safety.

Features & Benefits

Rapid: Cell lysis is completed within 10–15 minutes.
Convenient: Reagents are easy to prepare, and assay procedures are simple.
Highly sensitive: Detects as little as 10⁻²⁰ mol of luciferase.
Wide linear range: Up to 8 orders of magnitude.

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.org
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA