



# Highly Stable Luciferase/Luciferin Reagent Kit

## Product Information

### Cat.No.

Kit-0526

### Product Overview

Highly Stable Luciferase/Luciferin Reagent Kit is used for measuring ATP levels in a wide variety of biological samples.

### Description

Highly Stable Luciferase/Luciferin Reagent Kit utilizes a genetically modified variant derived from the Luciferase of *Diaphanes pectinealis* (Chinese Firefly) endemic to Yunnan province, China. luciferase (rLucHS) has been modified to provide enhanced stability compared to the normal phenotype of *Photinus pyralis*, as well as a broader and more physiologically relevant effective pH range. At all pHs below ~ 8.2, rLucHS is significantly more active than commercial *Photinus pyralis* luciferase and is stable for weeks at room temperature and >60 min at 37°C. The specific activity of rLucHS is ~ 5 x 10<sup>11</sup> RLU/mg protein. This reagent has application to measure ATP levels in a wide variety of biological samples such as cells, tissues and fermentation broth, etc.

### Target Species

Mammals

### Usage

For research use only (RUO)

### Storage

Store vials at -80°C, protected from light; good for 1 year.

### Kit Components

StayBrite Reconstitution Buffer. Cap code: clear. 1.2 ml rLucHS Reagent Mix. Cap code: green. 1 vial

**Detection method** Luminescence

### Compatible Sample Types



CREATIVE **BIOMART**<sup>®</sup>  
Assay Kit

# Highly Stable Luciferase/Luciferin Reagent Kit

Cell Homogenate, Fermentation Broth, Tissue Homogenate

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