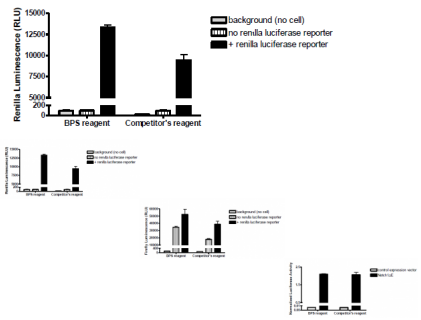
Dual Luciferase (Firefly-Renilla) Assay System



10 ml

Rating: Not Rated Yet
Price
Sales price 3825 ?

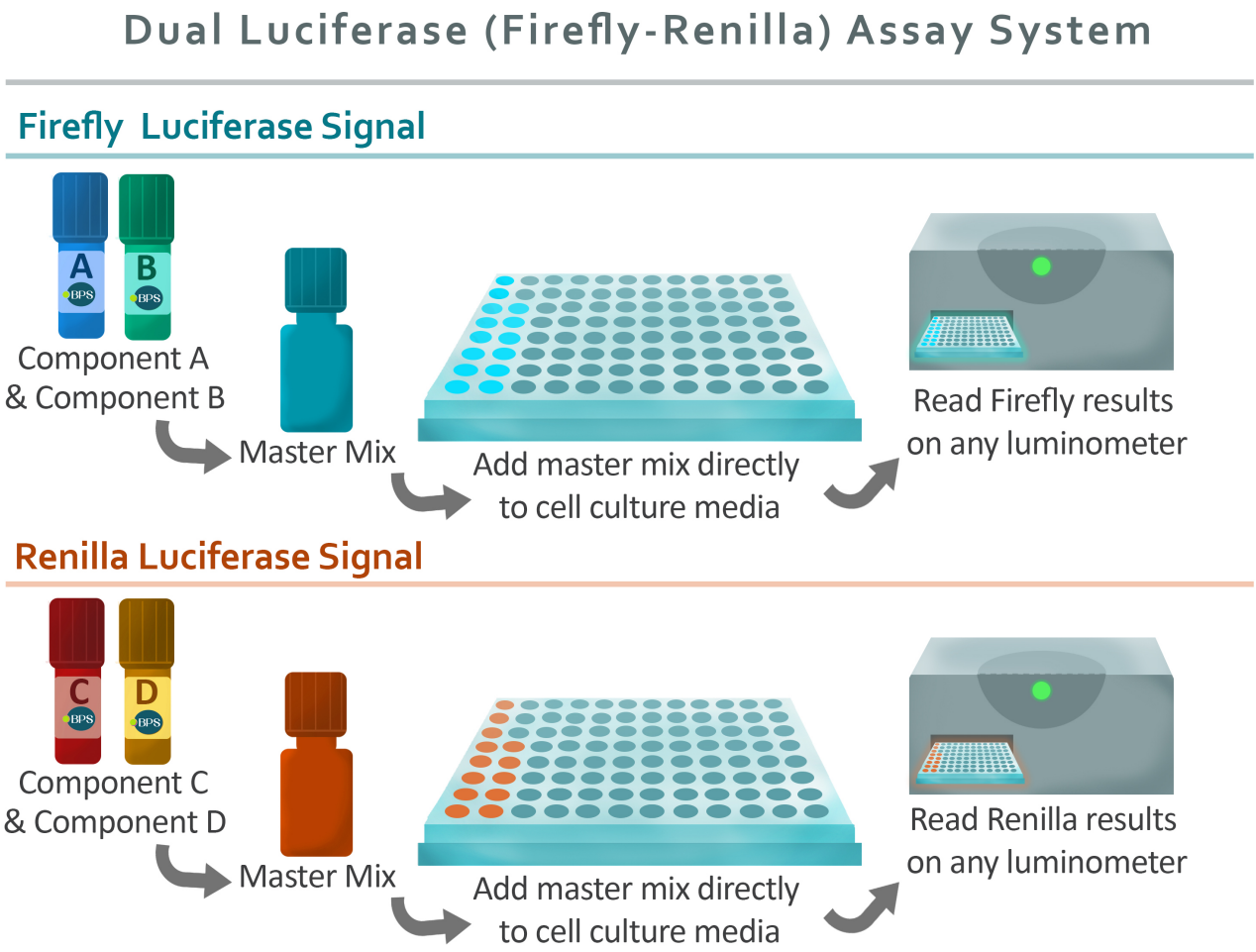
Discount

Ask a question about this product

ManufacturerBPS Bioscience

Description

Firefly luciferase has been used as a sensitive reporter to study a wide range of biological responses. However the change of the expression of Firefly luciferase reporter can be due to a global effect instead of a specific effect. The accuracy of Firefly luciferase reporter can be improved by normalizing to a control reporter, such as Renilla luciferase reporter, in the same sample.



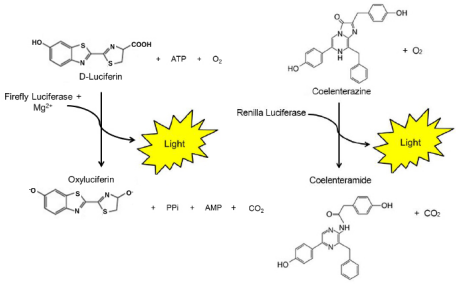
The Dual Luciferase (Firefly-Renilla) Assay System is designed to be used for high-throughput, rapid quantitation of both Firefly and Renilla luciferases from a single sample in mammalian cell culture. The Firefly Luciferase Reagent is first added to the cells in medium directly. This reagent lyses the cells and contains a substrate for firefly luciferase to produce firefly luciferase luminescence. Next, the Renilla Luciferase Reagent is added to the same well. It quenches the firefly luciferase luminescence and provides the substrate for renilla luciferase to produce renilla luciferase luminescence. The light production of both reactions can be conveniently measured on a luminometer. This assay system has several features:

• Sensitive – highly sensitive detection of firefly luciferase activity and Renilla luciferase activity.

• Stable – the luciferase signal output is stable for more than one hour, providing flexibility with regard to incubation time

• High-throughput – simple homogeneous protocol minimizes handling steps to support high-throughput screening applications

• Compatibility – works well with a variety of common media containing 0-10% serum and phenol red.



Applications

• Monitor firefly (Photinus pyralis) and Renilla luciferase activity in cultured mammalian cells.

• High-throughput drug screening using Firefly-Renilla dual luciferase reporter.

Storage/Stability

At least 6 months when stored as directed. Upon first thaw, store Components A, B, and D at -20°C. Store the Component C at room temperature. The reagent may be subjected to several freeze/thaw cycles with no effect on functionality, but it is recommended that freeze/thaw cycles be avoided whenever possible.

Synonym(s)

Luciferin, Firefly luciferase, luciferase buffer, dual luciferase, renilla, luciferase detection buffer, 60683-1, 60683-2, 60683-3

Format

Components for 100 ml size:

Component	Amount	Storage
Firefly Luciferase Reagent Buffer (**Component A**)	100 ml	-20°C
Firefly Luciferase Reagent Substrate 100x (**Component B**)	1000 µl	-20°C *Protect from light*
Renilla Luciferase Reagent Buffer (**Component C**)	100 ml	Room Temp.
Renilla Luciferase Reagent substrate 100x (**Component D**)	1000 µl	-20°C *Protect from light*

Instructions for Use

See product datasheet for detailed protocol.

Warnings

Protect from light. Avoid freeze/thaw cycles.

Scientific Category

Cell-Based Assay Kits

Data Sheets

60683-1.pdf 60683-2.pdf 60683-3.pdf

Reviews

There are yet no reviews for this product.