

Luciferase Reporter Gene Assay System


Product Introduction

Firefly luciferase catalyzes the oxidative carboxylation of luciferin in the presence of oxygen, ATP and Mg^{2+} , releasing optical signals, which is a highly efficient luminescence reaction and is therefore designed to detect and quantify the expression of firefly luciferase in mammalian cells.

CHASELECTION luciferase reporter gene assay kits are used to accurately, sensitively and efficiently determine the activity of firefly luciferase, and to perform high-throughput drug screening, drug activity detection, large-scale promoter function determination, signal pathway and other researches.

Multiple Varieties/Addressing Various Needs

Three assay systems have been launched to meet different focus needs of reporter gene assay.

**Enhanced Luciferase Assay Kit**

- ✓ Balance time and luminous intensity to suit various application scenarios
- ✓ Selection of high throughput and ultra-high throughput detection

Hypersensitive Luciferase Assay Kit

- ✓ Providing ultra-high intensity luminescence to make detection results more intuitive
- ✓ Suitable for automated continuous sample processing

Stable Luciferase Assay Kit

- ✓ Providing continuous luminescence to get more time for testing
- ✓ Longer half-life and more stable optical signal
- ✓ Ideal choice for batch testing

Product Advantages

High detection sensitivity and good signal stability

After adding gradient diluted TNF α to HEK293-NF κ B-LUC cells and stimulation for 6 hours at 37°C and 5% CO_2 , signal detection were performed using enhanced, hypersensitive, stable assay reagents respectively.

