

TransDetect® Single-Luciferase (*Renilla*) Reporter Assay Kit

Cat. No. FR111

Storage: at -20°C in dark for one year. Prepared Luciferase Reaction Reagent II should be stored in aliquots in dark at -20°C for one month or at -70°C for one year.

Description

Renilla luciferase can catalyze the oxidation of coelenterazine to coelenteramide, and luminescence is produced in the process. TransDetect® Single-Luciferase (*Renilla*) Reporter Assay Kit uses coelenterazine as substrate to detect the activity of *Renilla* luciferase, which has advantages of high sensitivity, fast detection and broad range of detection.

Kit Contents

Component	FR111-01 (50 rxns)	FR111-01 (200 rxns)
Luciferase Reaction Buffer II	5 ml	20 ml
Luciferase Reaction Substrate II (50×)	100 µl	400 µl
Cell Lysis Buffer (5×)	5 ml	20 ml

Procedures

Product Name	Catalog
PBS without calcium or magnesium	TransGen, Cat. FG701-01

1. Prepare Luciferase Reaction Reagent II

Mix 50× Luciferase Reaction Substrate II and Luciferase Reaction Buffer II in a ratio of 1:50. Prepared Luciferase Reaction Reagent II should be stored in aliquots in dark at low temperature. Avoid repeated freeze-thawing.

2. Prepare 1×Cell Lysis Buffer

Mix 5×Cell Lysis Buffer and Nuclease-free Water in a ratio of 1:4. 1×Cell Lysis Buffer can be stored at 2-8°C for 1 month.

3. Prepare Cell Lysate

- Wash cells twice with 1×PBS and add 1×Cell Lysis Buffer.

Well	Lysis Buffer / Well
6	500 µl
12	250 µl
24	100 µl
48	60 µl
96	20 µl

- Incubate at room temperature for 10 minutes. Scrape and transfer the cells to a 1.5 ml tube. Centrifuge at 12,000×g for 10 minutes at 2-8°C. Transfer the supernatant (cell lysate) to a new tube..

4. Assay

Balance the Luciferase Reaction Reagent II to room temperature. Mix 20 µl of cell lysate with 100 µl of Luciferase Reaction Reagent II. Place the tube in luminometer to measure the luminescent signal of *Renilla* luciferase.

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