

**武汉一沃生物科技有限公司**

Firefly Luciferase mRNA（5-Methoxy UTP）

Cat.No.: ER1006 Size: 50μg/200μg/500μg/1mg

Con.: 1mg/mL Store at -20℃（not frost-free）

Product overviews

 Firefly luciferase was originally isolated from the firefly Photinus pyralis and is a commonly used bioluminescent reporter molecule. It is frequently utilized in research for gene regulation, cell viability assays, ATP level analysis, and in vivo imaging studies. When the product Firefly Luciferase mRNA is transfected into cells, the cells can express the firefly luciferase protein.

Product components

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| Cat.No | Product Name | Formula |
| ER1006 | Firefly Luciferase mRNA（5-Methoxy UTP） | Enzyme-free aqueous solvent, 1mg/mL mRNA |

Usage Instructions

Cell Experiment Reference Steps:

1. Digest the cells and seed them onto a 12-well plate, with 5x10^5 cells per well in a 1 mL culture system. Transfection can be performed when the cell growth density exceeds 80%.

2. Prepare the mRNA transfection reagent and add it to the cells at a concentration of 0.5-2 μg per well. Incubate the cells at 37°C in a 5% CO2 cell culture incubator for 6-8 hours. After incubation, replace the medium with complete culture medium and continue to culture for 24-48 hours.

3. Use a luciferase substrate reaction kit for detection and measure the relative fluorescence intensity at 560 nm using a microplate reader.

Note: Depending on the specific experimental objectives, different cell lines, seeding densities, transfection concentrations, and incubation times can be chosen. To avoid background fluorescence interference, it is recommended to use opaque white or black plates.

Notes

1. Storage Conditions: mRNA can be stored for 6 months at -20°C and for 12 months at -80°C.

2. Avoid repeated freeze-thaw cycles of mRNA. If repeated freeze-thawing and repeated use are necessary, aliquot the mRNA upon first use.

3. During the experiment, use RNase-free reagents and consumables throughout the entire process, and adhere to standardized operations in an RNase-free environment.

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