

**武汉一沃生物科技有限公司**

d2eGFP-mRNA（N1-Me-Pseudo UTP）

Cat.No.:ER1003 Size: 50μg/200μg/500μg/1mg

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

Product overviews

d2eGFP is a modified version of EGFP that facilitates protein degradation, thereby reducing the half-life without compromising expression intensity. The d2eGFP protein can be used to precisely measure mRNA transcription regulated by promoters and gene expression. d2eGFP-mRNA has been generated through in vitro transcription, and the product is already mRNA capped at the 5' end and polyadenylated at the 3' end.

Product components

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| Cat.No | Product Name | Formula |
| ER1003 | d2eGFP-mRNA（N1-Me-Pseudo UTP） | Enzyme-free aqueous solvent, 1mg/mL mRNA |

Usage Instructions

Experimental procedure:

1. Digest cells and plate them in a 12-well plate, seeding 5x10^5 cells per well in 1 mL of culture medium. Transfection can proceed once cell confluency reaches >80%.

2. Prepare 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.

3. Use fluorescence microscopy to visualize d2eGFP expression. Alternatively, after transfection, cells can be collected by digestion, centrifuged, and resuspended for flow cytometry analysis of d2eGFP fluorescence expression.

Note: The half-life of d2eGFP typically ranges from several hours to about a day, depending on experimental conditions and cell types. The half-life may vary from a few hours to over ten hours. Detection of protein expression levels of d2eGFP mRNA-transfected 293T/17 cells can be conducted at 6, 12, and 24 hours post-transfection. It is advisable to validate and determine the half-life based on experimental conditions and the cell type used.

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.

References

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