

**武汉一沃生物科技有限公司**

EPO mRNA（5-Methoxy UTP）

Cat.No.:ER1008 Size: 50μg/200μg/500μg/1mg

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

Product overviews

The protein encoded by EPO mRNA, erythropoietin, is a hormone that regulates the production of red blood cells or erythropoiesis in mammals. It is primarily produced by the kidneys, with a small amount produced by the liver. Erythropoietin also plays a role in wound healing and the response of the brain to neural damage. Transfection of EPO mRNA in vivo leads to a significant increase in reticulocyte count and hematocrit. Proteins of this kind are also commonly used as indicator proteins to study the efficiency of protein translation in cells.

Product components

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| Cat.No | Product Name | Formula |
| ER1008 | EPO mRNA  （5-Methoxy UTP） | Enzyme-free aqueous solvent, 1 mg/mL mRNA |

Usage Instructions

Cell Experiment Reference Steps:

1. Digest cells and seed them into a 12-well plate with a density of 5x105 cells per well, with 1mL culture medium. Transfection can be performed when the cell growth density is >80%.

2. Prepare mRNA transfection reagent and add it to the cells, with a dosage of 0.5-2μg 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 incubating for 24-48 hours.

3. After 24-48 hours of transfection, collect the cell culture supernatant for ELISA and Western Blotting analysis.

In Vivo Expression Experiment Reference Steps:

1. Transfect mice with EPO mRNA.

2. After a certain period of transfection, collect blood samples from the mice. Use appropriate ELISA kits to detect the expression levels of EPO in serum and plasma.

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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