

**武汉一沃生物科技有限公司**

GM-CSF mRNA(5-Methoxy UTP), Mouse

Cat.No.:ER2002 Size: 50μg/200μg/500μg/1mg

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

Product overviews

GM-CSF, Mouse mRNA expresses the GM-CSF protein in mice. GM-CSF, as a hematopoietic growth factor, can stimulate the formation of granulocytes and macrophages from bone marrow precursor cells. It has a wide range of physiological functions, mainly promoting the generation, differentiation, activation, and survival of granulocytes and macrophages. Additionally, it is a key homeostatic factor in the alveoli, where it is essential for the development and long-term maintenance of alveolar macrophages. The GM-CSF mRNA produced by this kit adopts a Cap1 structure and is modified with 5-Methoxy UTP. The UTR and PolyA have been optimized with proprietary technology to significantly enhance mRNA translation efficiency and expression levels, while reducing immunogenicity and cellular toxicity.

Product components

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| Cat.No | Product Name | Formula |
| ER2002  | GM-CSF mRNA(5-Methoxy UTP), Mouse | 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 5x10^5 cells per well and 1 mL of culture medium. Transfection can be performed when cell confluence 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 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 cell culture supernatant for ELISA and Western blotting analysis.

In Vivo Expression Experiment Reference Steps:

1. Transfect EPO GM-CSF mRNA(5-Methoxy UTP), Mouse into mice.

2. After a certain period of transfection, collect blood samples from the mice. Use the corresponding ELISA kit 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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