

**武汉一沃生物科技有限公司**

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

Cat.No.:ER2004 Size: 50μg/200μg/500μg/1mg

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

Product overviews

GM-CSF, Human mRNA expresses the GM-CSF protein in humans. GM-CSF, as a hematopoietic growth factor, stimulates the formation of granulocytes and macrophages from bone marrow progenitor 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 utilized for the development and long-term maintenance of alveolar macrophages under low-level conditions. The Enobio ready-to-use GM-CSF mRNA(5-Methoxy UTP), Human utilizes a Cap1 structure and N1-Me-Pseudo UTP modification. The UTR and PolyA have been optimized with proprietary technology to significantly enhance mRNA translation efficiency and expression levels, while also reducing immunogenicity and cytotoxicity.

Product components

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| --- | --- | --- |
| Cat.No | Product Name | Formula |
| ER2004 | GM-CSF mRNA  (5-Methoxy UTP), Human | Enzyme-free aqueous solvent, 1 mg/mL mRNA |

Usage Instructions

Cell experiment reference steps are as follows:

1. Digest cells and seed them into 12-well plates, with 5x105 cells per well, in a 1mL culture system. Cells should reach a growth density of >80% before transfection.

2. Prepare mRNA transfection reagent and add it to the cells at a concentration of 0.5-2μg per well. Incubate 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. Collect cell culture supernatant 24-48 hours post-transfection for ELISA detection.

In vivo expression experiment reference steps are as follows:

1. Transfect GM-CSF mRNA(5-Methoxy UTP), Human 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 GM-CSF 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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