



碧云天生物技术/Beyotime Biotechnology
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Recombinant Human M-CSF

| 产品编号 | 产品名称 | 包装 |
|-------------|-------------------------|-------|
| P5313-10μg | Recombinant Human M-CSF | 10μg |
| P5313-100μg | Recombinant Human M-CSF | 100μg |
| P5313-500μg | Recombinant Human M-CSF | 500μg |

产品简介:

| Species | Gene ID | Accession | Source | Length | MW | Tag |
|---------|---------|-----------|----------------|--------|---------|-----|
| Human | 1435 | P09603 | <i>E. coli</i> | 158aa | 36.8kDa | — |

| About this protein | |
|---------------------|---|
| Name | Recombinant Human M-CSF (Recombinant Human Macrophage Colony Stimulating Factor; rHuM-CSF); 重组人巨噬细胞集落刺激因子 |
| Synonyms | CSF1; CSF-1; colony stimulating factor 1 (macrophage); CSF-1; Lanimostim; macrophage colony stimulating factor; macrophage colony-stimulating factor 1; M-CSF; MCSFlanimostim; MGC31930 |
| Purity | >95% by SDS-PAGE and HPLC analyses. |
| Biological Activity | Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using murine M-NFS-60 cells is less than 1ng/ml, corresponding to a specific activity of $>1.0 \times 10^6$ IU/mg. |
| Physical Appearance | Sterile Filtered White lyophilized (freeze-dried) powder. |
| Formulation | Lyophilized from a 0.2μm filtered solution in PBS, pH7.4. |
| Endotoxin | Less than 1EU/μg of rHuM-CSF as determined by LAL method. |
| Reconstitution | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water to a concentration of 0.1mg/ml. Stock solutions should be apportioned into working aliquots and stored at $\leq -20^\circ\text{C}$. Further dilutions should be made in appropriate buffered solutions. |
| Category | Cytokine |
| Background | Macrophage Colony Stimulating Factor (M-CSF), also named CSF-1, is a hematopoietic growth factor that is involved in the proliferation, differentiation, and survival of monocytes, macrophages, and bone marrow progenitor cells. It is produced by osteoblasts (as a result of endocrine stimulation by parathyroid hormone) exerts paracrine effects on osteoclasts and can interact with CSF1R. M-CSF is a four α -helical bundle cytokine and its active form is found extracellularly as a disulfide-linked homodimer. Four transcript variants encoding three different isoforms have been reported for M-CSF gene. Although forms may vary, all of them contain the N-terminal 150a.a. portion that is necessary and sufficient for interaction with the receptor. The first 223a.a. of mature human M-CSF shares 88%, 86%, 81% and 74% sequence identity with corresponding regions of dog, cow, mouse and rat M-CSF, respectively. Human M-CSF is active in the mouse, but mouse M-CSF is reported to be species-specific. |
| Amino Acid Sequence | EEVSEYCSHM IGSGHLQSLQ RLIDSQMETS CQITFEFVDQ EQLKDPVCYL KKAFLLVQDI MEDTMRFRDN TPNAIAIVQL QELSLRLKSC FTKDYEEHDK ACVRTFYETP LQLLEKVKNV FNETKNLLDK DWNIFSKNCN NSFAECSSQG HERQSEGS |

包装清单:

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| | | |
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| — | 说明书 | 1份 |

保存条件：

-20°C或更低温度保存，至少一年有效。由于蛋白的每次冻融均会引起部分失活，所以首次配制成相应浓度的储存液后(请根据产品简介中Reconstitution一栏的信息配制储存液)，须分装后-20°C或更低温度冻存，以避免反复冻融。

注意事项：

- 由于有些塑料管壁对某些蛋白有较强的吸附作用，溶液中的蛋白很容易粘附在管壁上，并且粘附后的蛋白很难与管壁分离。而载体蛋白(Carrier protein, 如0.1% BSA等)的主要作用是预先封闭塑料管壁上的蛋白结合位点，使细胞因子或重组蛋白不会粘附于管壁。所以一定要使用产品简介中Reconstitution一栏的信息配制储存液。
- 本产品仅限于专业人员的科学研究用，不得用于临床诊断或治疗，不得用于食品或药品，不得存放于普通住宅内。
- 为了您的安全和健康，请穿实验服并戴一次性手套操作。

使用说明：

1. 收到产品后请立即按照说明书推荐的条件保存。除非特别注明，碧云天相关产品均为冻干粉，由于微量的蛋白在冻干过程中沉积在管内，形成很薄或不可见的蛋白层，所以在打开管盖前，我们建议在离心机中约8,000-12,000g离心10-30秒，使附着在管盖或管壁上的蛋白聚集于管底。
2. 请根据实验目的并按照产品简介中Reconstitution一栏中的信息配制储存液。大多数细胞因子或重组蛋白的冻干粉是很容易溶解的，一般用移液枪的枪头轻吹几下或者轻轻摇晃瓶子，即可使细胞因子或重组蛋白完全溶解。请勿用vortex剧烈振荡，以免蛋白变性而失活。
3. 具体的最佳工作浓度请自行参考相关文献，或者根据实验目的，以及特定细胞和动物，通过实验进行摸索和优化。

Version 2024.01.10