



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

| 产品编号 | 产品名称 | 包装 |
|-------------|--------------------------|-------|
| P5286-5μg | Recombinant Human GM-CSF | 5μg |
| P5286-20μg | Recombinant Human GM-CSF | 20μg |
| P5286-100μg | Recombinant Human GM-CSF | 100μg |
| P5286-1mg | Recombinant Human GM-CSF | 1mg |

产品简介:

| Species | Gene ID | Accession | Source | Length | MW | Tag |
|---------|---------|-----------|----------------|--------|---------|-----|
| Human | 1437 | P04141 | <i>E. coli</i> | 127aa | 14.5kDa | — |

| About this protein | |
|---------------------|--|
| Name | Recombinant Human GM-CSF (Recombinant Human Granulocyte-Macrophage Colony Stimulating Factor; rHuGM-CSF); 重组人粒细胞-巨噬细胞集落刺激因子 |
| Synonyms | CSF2; colony stimulating factor 2 (granulocyte-macrophage); Colony-stimulating factor; CSF; GM-CSF; GMCSFgranulocyte-macrophage colony-stimulating factor; granulocyte-macrophage colony stimulating factor; MGC131935; MGC138897; Molgramostin; molgramostin; sargramostim; Sargramostim |
| Purity | >98% 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 human TF-1 cells is less than 0.1ng/ml, corresponding to a specific activity of >1.0×10 ⁷ IU/mg. |
| Physical Appearance | Sterile Filtered White lyophilized (freeze-dried) powder. |
| Formulation | Lyophilized from a 0.2μm filtered concentrated solution in PBS, pH7.4. |
| Endotoxin | Less than 1EU/μg of rHuGM-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 or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0mg/ml. Stock solutions should be apportioned into working aliquots and stored at ≤-20°C. Further dilutions should be made in appropriate buffered solutions. |
| Category | Cytokine |
| Background | Granulocyte-Macrophage Colony Stimulating Factor (GM-CSF) is secreted by a number of different cell types (including activated T cells, B cells, macrophages, mast cells, endothelial cells and fibroblasts) in response to cytokine or immune and inflammatory stimulation. It was initially characterized as a growth factor that can support the in vitro colony formation of granulocyte-macrophage progenitors and has functions of stimulates the growth and differentiation of hematopoietic precursor cells from various lineages. GM-CSF has also been reported to have a functional role on non-hematopoietic cells and can induce human endothelial cells to migrate and proliferate. Additionally, it can stimulate the proliferation of a number of tumor cell lines, including osteogenic sarcoma, carcinoma and adenocarcinoma cell lines. Human GM-CSF shares 54% sequences identity with mouse GM-CSF, but has no biological effects across species. GM-CSF is used as a medication to stimulate the production of white blood cells following chemotherapy and has also recently been evaluated in clinical trials for its potential as a vaccine adjuvant in HIV-infected patients. |
| Amino Acid Sequence | APARSPSPST QPWEHVNAIQ EARRLLNLSR DTAAEMNETV EWISEMFDLQ EPTCLQTRLE LYKQGLRGS� TKLKGPLTMM ASHYKQHCPP TPETSCATQI ITFESFKENL KDFLLVLPFD CWPEPVQE |

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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。

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