



碧云天生物技术/Beyotime Biotechnology
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Recombinant Murine MIF

| 产品编号 | 产品名称 | 包装 |
|-------------|------------------------|-------|
| P7320-10μg | Recombinant Murine MIF | 10μg |
| P7320-100μg | Recombinant Murine MIF | 100μg |
| P7320-500μg | Recombinant Murine MIF | 500μg |

产品简介:

| Species | Gene ID | Accession | Source | Length | MW | Tag |
|---------|---------|-----------|----------------|--------|---------|-----|
| Murine | 17319 | P34884 | <i>E. coli</i> | 115aa | 12.5kDa | — |

| About this protein | |
|---------------------|--|
| Name | Recombinant Murine MIF (Recombinant Murine Migration Inhibitor Factor; rMuMIF); 重组小鼠移动抑制因子 |
| Synonyms | EC 5.3.2.1; EC 5.3.3.12; GIFmacrophage migration inhibitory factor; GLIF; Glycosylation-inhibiting factor; L-dopachrome isomerase; L-dopachrome tautomerase; macrophage migration inhibitory factor (glycosylation-inhibiting factor); MMIF; Phenylpyruvate tautomerase |
| Purity | >96% by SDS-PAGE and HPLC analyses. |
| Biological Activity | Bioassay data are not available. |
| Physical Appearance | Sterile Filtered White lyophilized (freeze-dried) powder. |
| Formulation | Lyophilized from a 0.2μm filtered concentrated solution in PBS, pH7.4, 1mM DTT. |
| Endotoxin | Less than 1EU/μg of rMuMIF 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 | Others |
| Background | Macrophage migration inhibitory factor (MIF or MMIF), also named as glycosylation-inhibiting factor (GIF), L-dopachrome isomerase, or phenylpyruvate tautomerase, is a protein encoded by the MIF gene. It is released from white blood cells by bacterial antigen stimulation to trigger an acute immune response, or by glucocorticoids to counter-act the inhibitory effects of glucocorticoids on immune system. MIF is a homotrimer of which each subunit contains 115 amino acids. As mentioned above, MIF is involved in the innate immune response to bacterial pathogens and counter-acts the anti-inflammatory activity of glucocorticoids. Furthermore, it also plays a role as mediator in regulating the function of macrophages in host defense and has phenylpyruvate tautomerase and dopachrome tautomerase activity in vitro. Mouse MIF is active on human cells, while human MIF is active on mouse cells. Mouse MIF is 99%, 84%, 90%, and 90% a.a. identical to rat, porcine, bovine and human MIF, respectively. |
| Amino Acid Sequence | MPMFIVNTNV PRASVPEGFL SELTQQLAQA TGKPAQYIAV HVVPDQLMTF SGTNDPCALC SLHSIGKIGG AQNRNYSKLL CGLLSDRLHI SPDRVYINYY DMNAANVGWN GSTFA |

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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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