



碧云天生物技术/Beyotime Biotechnology  
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## Recombinant Murine IFN- $\gamma$

产品编号	产品名称	包装
P6137-100 $\mu$ g	Recombinant Murine IFN- $\gamma$	100 $\mu$ g
P6137-500 $\mu$ g	Recombinant Murine IFN- $\gamma$	500 $\mu$ g

### 产品简介:

Species	Gene ID	Accession	Source	Length	MW	Tag
Murine	15978	P01580	<i>E. coli</i>	133aa	15.5kDa	—

About this protein	
Name	Recombinant Murine IFN- $\gamma$ (Recombinant Murine Interferon- $\gamma$ ; rMuIFN- $\gamma$ ); 重组小鼠干扰素 $\gamma$
Synonyms	IFNG; IFG; IFI; IFN-gamma; Immune interferon; interferon gamma; interferon, gamma
Purity	>96% by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active when compared to standard. The ED50 as determined by an anti-viral assay using murine L929 cells infected with encephalomyocarditis (EMC) virus is less than 0.8ng/ml, corresponding to a specific activity of $>1.3 \times 10^6$ IU/mg.
Physical Appearance	Sterile Filtered lyophilized (freeze-dried) liquid-like powder
Formulation	Lyophilized from a 0.2 $\mu$ m filtered solution in PBS, pH7.4, containing 5% trehalose.
Endotoxin	Less than 1EU/ $\mu$ g of rMuIFN- $\gamma$ 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 $\leq -20^\circ\text{C}$ . Further dilutions should be made in appropriate buffered solutions.
Category	Cytokine
Background	Interferon-gamma (IFN- $\gamma$ ), also known as Type II interferon or immune interferon, is a cytokine produced primarily by Tlymphocytes and natural killer cells. The protein shares no significant homology with IFN- $\beta$ or the various IFN- $\alpha$ family proteins. Mature IFN- $\gamma$ exists as noncovalently-linked homodimers. It shares high sequence identity with rat IFN- $\gamma$ (86%). IFN- $\gamma$ was originally characterized based on its antiviral activities. The protein also exerts antiproliferative, immunoregulatory and proinflammatory activities and is thus important in host defense mechanisms. IFN- $\gamma$ induces the production of cytokines, upregulates the expression of class I and II MHC antigens, Fc receptor and leukocyte adhesion molecules. It modulates macrophage effector functions, influences isotype switching and potentiates the secretion of immunoglobulins by B cells. Additionally, IFN- $\gamma$ augments TH1 cell expansion and may be required for TH1 cell differentiation.
Amino Acid Sequence	HGTVIESLES LNNYFNSSGI DVEEKSLFLD IWRNWQKDGD MKILQSQIIS FYLRLFEVLK DNQAISNNIS VIESHLITTF FSNSKAKKDA FMSIAKFEVN NPQVQRQAFN ELIRVVHQLL PESSLRKRKR SRC

### 包装清单:

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P6137-100 $\mu$ g	Recombinant Murine IFN- $\gamma$	100 $\mu$ g
P6137-500 $\mu$ g	Recombinant Murine IFN- $\gamma$	500 $\mu$ g
—	说明书	1份

### 保存条件:

-20 $^\circ\text{C}$ 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。
- 本产品在冻干时添加了海藻糖作为保护剂, 此时冻干后本产品看起来仍然像是液体, 属于正常现象。在冻干工艺上, 海藻糖作为常用的冻干保护剂, 可显著阻止蛋白质二级结构的改变, 防止冻干过程中的蛋白变性。
- 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非常容易溶解的, 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