



碧云天生物技术/Beyotime Biotechnology
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Recombinant Rat IFN- γ

产品编号	产品名称	包装
P6398-100 μ g	Recombinant Rat IFN- γ	100 μ g
P6398-500 μ g	Recombinant Rat IFN- γ	500 μ g

产品简介:

Species	Gene ID	Accession	Source	Length	MW	Tag
Rat	25712	P01581	<i>E. coli</i>	134aa	15.5kDa	—

About this protein	
Name	Recombinant Rat IFN- γ (Recombinant Rat Interferon- γ ; rRtIFN- γ); 重组大鼠干扰素 γ
Synonyms	IFNG; IFG; IFI; IFN-gamma; Immune interferon; interferon gamma; interferon, gamma
Purity	>97% 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 0.1ng/ml, corresponding to a specific activity of $>1.0 \times 10^7$ IU/mg.
Physical Appearance	Sterile Filtered lyophilized (freeze-dried) liquid-like powder
Formulation	Lyophilized from a 0.2 μ m filtered concentrated solution in 1X PBS, pH7.4, 1mM DTT, 5% Trehalose and 0.05% Tween-80.
Endotoxin	Less than 0.1EU/ μ g of rRtIFN- γ 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 10mM HAC 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- γ), 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- β or the various IFN- α family proteins. Mature IFN- γ exists as noncovalently-linked homodimers. It shares high sequence identity with murine IFN- γ (86%). IFN- γ 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- γ 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- γ augments TH1 cell expansion and may be required for TH1 cell differentiation.
Amino Acid Sequence	QGTLIESLES LKNYFNSSSM DAMEGKSLLL DIWRNWKDQ NTKILESQII SFYLRLFEVL KDNQAISNNI SVIESHLITN FFSNSKAKKD AFMSIAKFEV NNPQIQHKAV NELIRVIHQ L SPESLKRKRK RSRC

包装清单:

产品编号	产品名称	包装
P6398-100 μ g	Recombinant Rat IFN- γ	100 μ g
P6398-500 μ g	Recombinant Rat IFN- γ	500 μ 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。

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