



碧云天生物技术/Beyotime Biotechnology  
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## Recombinant Rhesus Macaque IL-13

| 产品编号        | 产品名称                             | 包装    |
|-------------|----------------------------------|-------|
| P5862-10μg  | Recombinant Rhesus Macaque IL-13 | 10μg  |
| P5862-100μg | Recombinant Rhesus Macaque IL-13 | 100μg |
| P5862-500μg | Recombinant Rhesus Macaque IL-13 | 500μg |

### 产品简介:

| Species        | Gene ID | Accession | Source         | Length | MW      | Tag |
|----------------|---------|-----------|----------------|--------|---------|-----|
| Rhesus Macaque | 574325  | Q864V6    | <i>E. coli</i> | 114aa  | 12.6kDa | —   |

| About this protein  |  |
|---------------------|--|
| Name                | Recombinant Rhesus Macaque IL-13 (Recombinant Rhesus Macaque Interleukin-13; rRhIL-13); 重组恒河猴白细胞介素13   |
| Synonyms            | Interleukin-13; IL-13; IL13  |
| 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 5ng/ml, corresponding to a specific activity of >2.0×10 <sup>5</sup> IU/mg.  |
| Physical Appearance | Sterile Filtered lyophilized (freeze-dried) liquid-like powder   |
| Formulation         | Lyophilized from a 0.2μm filtered concentrated solution in PBS, pH7.4, 3% trehalose.   |
| Endotoxin           | Less than 1EU/μg of rRhIL-13 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          | Interleukin-13 (IL-13) is expressed by the IL13 gene and secreted by many cell types, especially T helper type 2 (Th2) cells. The high resolution structure of IL-13 reported to be a monomer with two internal disulfide bonds that contribute to a bundled four α-helix configuration. Targeted deletion of IL-13 in mice resulted in impaired Th2 cell development and indicated an important role for IL-13 in the expulsion of gastrointestinal parasites. IL-13 exerts anti-inflammatory effects on monocytes and macrophages and it inhibits the expression of inflammatory cytokines such as IL-1β, TNF-α, IL-6 and IL-8. IL-13 has also been shown to enhance B cell proliferation and to induce isotype switching resulting in increased production of IgE. Mature rhesus IL-13 shares 94%, 58%, and 60% amino acid sequence identity with human, mouse and rat IL-13, respectively. |
| Amino Acid Sequence | SPSPVPRSTA LKELIEELVN ITQNQKAPLC NGSMVWSINL TAGVYCAALE SLINVSGCSA<br>IEKTQRMLNG FCPHKVSAGQ FSSLRVRDTK IEVAQFVKDL LVHLKFLFRE GRFN   |

### 包装清单:

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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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