



碧云天生物技术/Beyotime Biotechnology  
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## Recombinant Rat IL-33

| 产品编号        | 产品名称                  | 包装    |
|-------------|-----------------------|-------|
| P6317-10μg  | Recombinant Rat IL-33 | 10μg  |
| P6317-100μg | Recombinant Rat IL-33 | 100μg |
| P6317-500μg | Recombinant Rat IL-33 | 500μg |

### 产品简介:

| Species | Gene ID | Accession | Source         | Length | MW      | Tag |
|---------|---------|-----------|----------------|--------|---------|-----|
| Rat     | 361749  | Q66H70    | <i>E. coli</i> | 156aa  | 17.4kDa | —   |

| About this protein  |   |
|---------------------|---|
| Name                | Recombinant Rat IL-33 (Recombinant Rat Interleukin-33; rRtIL-33); 重组大鼠白细胞介素33   |
| Synonyms            | Interleukin-33; IL-33; Il33   |
| Purity              | >95% 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 murine D10S cells is less than 0.5ng/ml, corresponding to a specific activity of $>2.0 \times 10^6$ IU/mg.  |
| Physical Appearance | Sterile Filtered White lyophilized (freeze-dried) powder.   |
| Formulation         | Lyophilized from a 0.2μm filtered concentrated solution in 20mM Tris, 300mM NaCl, pH8.5.  |
| Endotoxin           | Less than 1EU/μg of rRtIL-33 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          | Interleukin-33 (IL-33), also known as NF-HEV and DVS 27, is a cytokine belonging to the IL-1 superfamily. It is also a proinflammatory protein that may regulate gene transcription and it induces helper T cells, mast cells, eosinophils and basophils to produce type 2 cytokines. The induction of type 2 cytokines by IL-33 in vivo is believed to induce the severe pathological changes observed in mucosal organs following administration of IL-33. IL-33 is constitutively expressed in smooth muscle and airway epithelia and it binds to a high-affinity receptor family member ST2. In vivo administration of mature IL-33 promotes increased production of IL-5, IL-13, IgE, and IgA, as well as splenomegaly and inflammatory infiltration of mucosal tissues. Recombinant rat IL-3 contains 156 amino acid residues and it shares 59% a.a. and 90% sequence identity with human and murine IL-33. |
| Amino Acid Sequence | SIQGTSLLTE SCALSTYNDQ SVSFVLENGC YVINVEDCGK NQEKDKVLLR YYESSFPAQS<br>GDGVDGKKLM VNMSPKDTD IWLNANDKDY SVELQKGDVS PPDQAFFVLH KKSSDFVSFE<br>CKNLPGTYIG VKDNQLALVE ENDESCNNIM FKLSKM  |

### 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