



碧云天生物技术/Beyotime Biotechnology  
 订货热线: 400-1683301 或 800-8283301  
 订货 e-mail: order@beyotime.com  
 技术咨询: info@beyotime.com  
 网址: http://www.beyotime.com

## Recombinant Human IL-2

产品编号	产品名称	包装
P5115-10μg	Recombinant Human IL-2	10μg
P5115-50μg	Recombinant Human IL-2	50μg
P5115-100μg	Recombinant Human IL-2	100μg
P5115-1mg	Recombinant Human IL-2	1mg

### 产品简介:

Species	Gene ID	Accession	Source	Length	MW	Tag
Human	3558	P60568	<i>E. coli</i>	133aa	15.4kDa	—

About this protein	
Name	Recombinant Human IL-2 (Recombinant Human Interleukin-2; rHuIL-2); 重组人白细胞介素2
Synonyms	aldesleukin; Aldesleukin; IL-2lymphokine; interleukin 2; interleukin-2; involved in regulation of T-cell clonal expansion; T cell growth factor; T-cell growth factor; TCGF
Purity	>97% 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 CTLL-2 cells is less than 0.1ng/ml, corresponding to a specific activity of $>1.0 \times 10^7$ IU/mg.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation	Lyophilized from a 0.2μm filtered concentrated solution in PBS, pH5.0.
Endotoxin	Less than 1EU/μg of rHuIL-2 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 H <sub>2</sub> O 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. Do not reconstitute in cell culture media directly.
Category	Cytokine
Background	IL-2 is a powerful immunoregulatory lymphokine produced by T-cells in response to antigenic or mitogenic stimulation. It is expressed by CD4 <sup>+</sup> and CD8 <sup>+</sup> T cells, $\gamma\delta$ T cells, B cells, dendritic cells and eosinophils. IL-2/IL-2R signaling is required for T-cell proliferation and other fundamental functions which are essential for the immune response. The receptor for IL-2 consists of three subunits (55kDa IL-2R $\alpha$ , 75kDa IL-2R $\beta$ , and 64kDa common gamma chain $\gamma\text{c}$ /IL-2R $\gamma$ ) that are present on the cell surface in varying preformed complexes. Mature human IL-2 shares 56% and 66% amino acid sequence identity with mouse and rat IL-2, respectively. Human and mouse IL-2 exhibit cross-species activity.
Amino Acid Sequence	APTSSSTKKT QLQLEHLLLD LQMILNGINN YKNPKLTRML TFKFYMPKKA TELKHLQCLE EELKPLEEVL NLAQSKNFHL RPRDLISNIN VIVLELKGSE TTFMCEYADE TATIVEFLNR WITFCQSIIS TLT

### 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。

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