



碧云天生物技术/Beyotime Biotechnology
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Recombinant Rat IL-2, Liquid

产品编号	产品名称	包装
P6258-5μg	Recombinant Rat IL-2, Liquid	5μg
P6258-100μg	Recombinant Rat IL-2, Liquid	100μg
P6258-500μg	Recombinant Rat IL-2, Liquid	500μg

产品简介:

Species	Gene ID	Accession	Source	Length	MW	Tag
Rat	116562	P17108	<i>E. coli</i>	135aa	15.5kDa	—

About this protein	
Name	Recombinant Rat IL-2, Liquid (Recombinant Rat Interleukin-2, Liquid; rRtIL-2, Liquid); 重组大鼠白细胞介素2, 液体
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 0.2ng/ml, corresponding to a specific activity of $>5.0 \times 10^6$ IU/mg.
Physical Appearance	Sterile Colorless liquid.
Formulation	A 0.2μm filtered concentrated sterile solution in 10mM sodium citrate, pH4.0, 30% glycerol.
Endotoxin	Less than 1EU/μg of rRtIL-2, Liquid as determined by LAL method.
Reconstitution	N/A
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 ⁺ and CD8 ⁺ T cells, γδ T cells, B cells, dendritic cells, and eosinophils. IL-2/IL-2R signaling is required for Tcell proliferation and other fundamental functions which are essential for the immune response. The receptor for IL-2 consists of three subunits (55kDa IL2Rα, 75kDa IL2Rβ, 64kDa common gamma chain γc/IL2Rγ) that are present on the cell surface in varying preformed complexes. Recombinant rat IL-2 is a 15.3kDa protein containing 134 amino acid residues and it shares about 82%, 66%, 66%, 60% and 54% amino acid sequence identity with mouse, human, rhesus macaque, pig and equus caballus IL-2, respectively.
Amino Acid Sequence	APTSSPAKET QQHLEQLLLD LQVLLRGIDN YKNLKLPMML TFKFYLPKQA TELKHLQCLE NELGALQRVL DLTQSKSFHL EDAGNFISNI RVTVVKLKGS ENKFECQFDD EPATVVEFLR RWIAICQSII STMTQ

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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