



碧云天生物技术/Beyotime Biotechnology  
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## Recombinant Rat CT-1

产品编号	产品名称	包装
P7370-10μg	Recombinant Rat CT-1	10μg
P7370-100μg	Recombinant Rat CT-1	100μg
P7370-500μg	Recombinant Rat CT-1	500μg

### 产品简介:

Species	Gene ID	Accession	Source	Length	MW	Tag
Rat	29201	Q63086	<i>E. coli</i>	203aa	21.4kDa	—

About this protein	
Name	Recombinant Rat CT-1 (Recombinant Rat Cardiotrophin-1; rRtCT-1); 重组大鼠心肌营养素1
Synonyms	CTF1; cardiophin 1; cardiotrophin 1; cardiotrophin-1; CT-1CT1
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 human TF-1 cells is less than 0.5ng/ml, corresponding to a specific activity of >2.0×10 <sup>6</sup> IU/mg.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation	Lyophilized from a 0.2μm filtered concentrated solution in 30% Acetonitrile, 0.1% TFA.
Endotoxin	Less than 1EU/μg of rRtCT-1 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 4mM HCl 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	Others
Background	Cardiotrophin-1 (CT-1) is a member of the cytokine family which also includes IL-6, IL-11, leukemia inhibitory factor (LIF), oncostatin M (OSM), and ciliary neurotrophic factor (CNTF). CT-1 is a pleiotropic cytokine which is expressed in various tissues including the adult heart, skeletal muscle, ovary, colon, prostate and fetal lung. Studies showed CT-1 which induces cardiac myocyte hypertrophy in vitro can bind to and activate the ILST/gp130 receptor. Rat CT-1 encodes a 203 amino acid (a.a.) residue protein that lacks a hydrophobic signal peptide and it shares 94%a.a. and 79%a.a. sequence identity with human and murine CT-1.
Amino Acid Sequence	MSQREGSLED HQTDSFSFL PHLEAKIRQT HNLARLLTKY ADQLLEEVVQ QQGEPFGLPG FSPRLPLAG LSGPAPSHAG LPVSELRQD AAALSALPAL LDAVRRRQAE LNPRAPRLLR SLEDAARQVR ALGAAVETVL AALGAAARGP VPEPVATSAL FTSNSAAGVF SAKVLGLHVC GLYGEWVSRT EGDGLQLVPG GVA

### 包装清单:

产品编号	产品名称	包装
P7370-10μg	Recombinant Rat CT-1	10μg
P7370-100μg	Recombinant Rat CT-1	100μg
P7370-500μg	Recombinant Rat CT-1	500μg
—	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。除非特别说明，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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