



碧云天生物技术/Beyotime Biotechnology  
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## Recombinant Human BMP-7

产品编号	产品名称	包装
P5772-10μg	Recombinant Human BMP-7	10μg
P5772-100μg	Recombinant Human BMP-7	100μg
P5772-500μg	Recombinant Human BMP-7	500μg

### 产品简介:

Species	Gene ID	Accession	Source	Length	MW	Tag
Human	655	P18075	<i>E. coli</i>	139aa	15.7kDa	—

About this protein	
Name	Recombinant Human BMP-7 (Recombinant Human Bone Morphogenetic Protein 7; rHuBMP-7); 重组人骨形态发生蛋白7
Synonyms	OP-1; BMP-7; bone morphogenetic protein 7; Eptotermin alfa; OP-1OP1; Osteogenic protein 1
Purity	>95% by SDS-PAGE and HPLC analyses.
Biological Activity	Data is not available.
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 rHuBMP-7 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 10mM HAc 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	Bone Morphogenetic Protein 7 is one of the BMPs, some of which belong to the TGF-β superfamily (BMP2-7). There are more than thirteen BMPs have been discovered nowadays and they are involved in inducing cartilage and bone formation. BMP-7 is mainly expressed in kidney and bladder. It is also present in developing eyes, brain and ear during embryogenesis. BMP-7 also named osteogenic protein-1 (OP-1) is a potent osteoinductive cytokine and plays role in osteoblast differentiation, SMAD1 production and renal development and repair. Human BMP-7 is synthesized with a signal sequence (29a.a.), a propeptide (263a.a.), and a growth factor domain (139a.a.). The growth factor domain of human BMP-7 shares 98%a.a. sequence identity with mouse and rat BMP-7.
Amino Acid Sequence	STGSKQRSQN RSKTPKNQEA LRMANVAENS SSDQRQACKK HELYVSFRDL GWQDWIIAPE GYAAYYCEGE CAFPLNSYMN ATNHAIQVTL VHFNPETVP KPCCAPTQLN AISVLYFDDS SNVILKKYRN MVVRCAGCH

### 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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