



碧云天生物技术/Beyotime Biotechnology  
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## Recombinant Human SPARC, His-tag

产品编号	产品名称	包装
P7167-10μg	Recombinant Human SPARC, His-tag	10μg
P7167-100μg	Recombinant Human SPARC, His-tag	100μg
P7167-500μg	Recombinant Human SPARC, His-tag	500μg

### 产品简介:

Species	Gene ID	Accession	Source	Length	MW	Tag
Human	6678	P09486	<i>E. coli</i>	314aa	36.1kDa	His

About this protein	
Name	Recombinant Human SPARC, His-tag (Recombinant Human Secreted Protein Acidic and Rich in Cysteine, His-tag; rHuSPARC, His-tag); 重组人富含半胱氨酸酸性分泌蛋白, His标签
Synonyms	BM-40; Osteonectin; Basement-membrane protein 40; BM-40; ONcysteine-rich protein; osteonectin; Osteonectin; Secreted protein acidic and rich in cysteine; secreted protein, acidic, cysteine-rich (osteonectin)
Purity	>95% by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active when compared to standard. The ED50 as determined by its ability to inhibit the cell growth of Mv1Lu mink lung epithelial cells is less than 3.0μg/ml, corresponding to a specific activity of >333IU/mg.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation	Lyophilized from a 0.2μm filtered concentrated solution in PBS, pH7.4.
Endotoxin	Less than 1EU/μg of rHuSPARC, His-tag 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 ≤-20°C. Further dilutions should be made in appropriate buffered solutions.
Category	Others
Background	Secreted protein acidic and rich in cysteine (SPARC), also named as osteonectin or BM-40, is an acronym for "secreted protein, acidic and rich in cysteine". It is encoded by the SPARC gene in humans. The protein is a glycoprotein of 40kDa, (303 amino acid residues) and consists of 17a.a. signal sequence, an N-terminal acidic region that binds calcium, a follistatin domain containing Kazal-like sequences, and a C-terminal extracellular calcium (EC) binding domain with two EF-hand motifs. SPARC is the founding member of a family of secreted matricellular proteins with similar domain structure. It is produced by fibroblasts, capillary endothelial cells, platelets and macrophages, especially in areas of tissue morphogenesis and remodeling. SPARC is required for the collagen in bone to become calcified but is also involved in extracellular matrix synthesis and promotion of changes to cell shape. The gene product has been associated with tumor suppression but has also been correlated with metastasis based on changes to cell shape which can promote tumor cell invasion.
Amino Acid Sequence	MSYYHHHHHH DYDIPTTENL YFQGAMGSAP QQEALPDETE VVEETVAEVT EVSVGANPVQ VEVGEFDDGA EETEEEVVAE NPCQNHCKH GKVCELDENN TPMCVCQDPT SCPAPIGEFE KVCSNDNKTF DSSCHFFATK CTLEGTKKGGH KLHLDYIGPC KYIPPCLDSE LTFEPLRMRD WLKNVLTLY ERDEDNLLT EKQKLRVKKI HENEKRLEAG DHPVELLARD FEKNYNMYIF PVHWQFGQLD QHPIDGYLSH TELAPLRAPL IPMEHCTTRF FETCDLDNDK YIALDEWAGC FGIKQKDIDK DLVI

## 包装清单:

产品编号	产品名称	包装
P7167-10 $\mu$ g	Recombinant Human SPARC, His-tag	10 $\mu$ g
P7167-100 $\mu$ g	Recombinant Human SPARC, His-tag	100 $\mu$ g
P7167-500 $\mu$ g	Recombinant Human SPARC, His-tag	500 $\mu$ g
—	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 2023.12.14