



碧云天生物技术/Beyotime Biotechnology
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Recombinant Human IGF-BP5

| 产品编号 | 产品名称 | 包装 |
|-------------|---------------------------|-------|
| P5520-5μg | Recombinant Human IGF-BP5 | 5μg |
| P5520-100μg | Recombinant Human IGF-BP5 | 100μg |
| P5520-500μg | Recombinant Human IGF-BP5 | 500μg |

产品简介:

| Species | Gene ID | Accession | Source | Length | MW | Tag |
|---------|---------|-----------|----------------|--------|---------|-----|
| Human | 3488 | P24593 | <i>E. coli</i> | 252aa | 28.6kDa | — |

| About this protein | |
|---------------------|--|
| Name | Recombinant Human IGF-BP5 (Recombinant Human Insulin-like Growth Factor-Binding Protein 5; rHuIGF-BP5); 重组人胰岛素样生长因子结合蛋白5 |
| Synonyms | IBP5IBP-5; IGF-binding protein 5; IGFBP-5; insulin-like growth factor binding protein 5; insulin-like growth factor-binding protein 5 |
| Purity | >96% by SDS-PAGE and HPLC analyses. |
| Biological Activity | Fully biologically active when compared to standard. The ED50 as determined by its ability to inhibit IGF-II induced proliferation of MCF-7 cells is less than 0.4μg/ml, corresponding to a specific activity of >2500IU/mg in the presence of 15ng/ml of rHuIGF-II. |
| Physical Appearance | Sterile Filtered White lyophilized (freeze-dried) powder. |
| Formulation | Lyophilized from a 0.2μm filtered concentrated solution in 10mM Sodium Citrate, pH3.0. |
| Endotoxin | Less than 0.1EU/μg of rHuIGF-BP5 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 | Cytokine |
| Background | The superfamily of insulin-like growth factor (IGF) binding proteins include the six high-affinity IGF binding proteins (IGFBP) and at least four additional low-affinity binding proteins referred to as IGFBP related proteins (IGFBP-rP). All IGFBP superfamily members are cysteine-rich proteins with conserved cysteine residues, which are clustered in the amino- and carboxyterminal thirds of the molecule. IGF-BP5 is produced by vascular smooth muscle cells. It is the major IGF-binding protein present in bone tissue and helps potentiate the action of IGF-I on smooth muscle cells, fibroblasts or osteoblasts. IGFBP-5 acts as a growth inhibitor and pro-apoptotic agent in breast cancer cells. IGFBP-5 overexpressing mice show an increase in neonatal mortality, reduced female fertility, whole-body growth inhibition and retarded muscle development. Recombinant human IGFBP5 is a 28.6kDa protein consisting of 252 amino acid residues. Human and murine IGF-BP5 share 97%a.a. sequence identity. |
| Amino Acid Sequence | LGSFVHCEPC DEKALSMCPP SPLGCELVKE PGCGCCMTCA LAEQSCGVY TERCAQGLRC LPRQDEEKPL HALLHGRGVC LNEKSYREQV KIERDSREHE EPTTSEMAEE TYSPIKIFRPK HTRISELKAE AVKKDRRKKL TQSKFVGGAE NTAHPRIISA PEMRQESEQG PCRRHMEASL QELKASPRMV PRAVYLPNCD RKGIFYKRKQC KPSRGRKRGI CWCVDKYGMK LPGMEYVDGD FQCHTFDSSN VE |

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| | | |
|-------------|---------------------------|-------|
| P5520-500µg | Recombinant Human IGF-BP5 | 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 2024.01.10