

重组人表皮生长因子 (EGF)

来源：重组人表皮生长因子，基因工程生产，大肠杆菌表达。
Source: Recombinant human epidermal growth factor, genetically engineered production, E. coli expression.

产品介绍 PRODUCT INTRODUCTION

人表皮生长因子(hEGF)是由53个氨基酸组成的小分子多肽，分子量约为6000道尔顿,等电点约为4.6,分子内有三对二硫键,因而对酸、碱、热等理化因素均较稳定。hEGF具有广泛的生物学效应,能极强地促进各种表皮组织生长,在医学上已用于烧烫伤、溃疡、各类创伤以及角膜损伤等的治疗。EGF还能促进正常表皮细胞的新陈代谢,添加到细胞培养基中,能起到促进细胞生长的作用。

Human epidermal growth factor (hEGF) is a small molecule peptide composed of 53 amino acids, with a molecular weight of about 6000 Daltons and an isoelectric point of about 4.6. It has three pairs of disulfide bonds within its molecule, making it relatively stable to physical and chemical factors such as acid, base, and heat. HEGF has a wide range of biological effects and can strongly promote the growth of various epidermal tissues. It has been used in medicine for the treatment of burns, ulcers, various traumas, and corneal injuries. EGF can also promote the metabolism of normal epidermal cells, and when added to cell culture medium, it can promote cell growth.

产品特性 PRODUCT FEATURES

项目 Items	标准 Standard	方法 Method
外观 Product appearance	白色、类白色粉末 White, off white, light yellow powder	目测检测 Visual inspection
纯度 (HPLC) Purity (HPLC)	≥90%	RP-HPLC
细菌内毒素 Bacterial endotoxin	≤10EU/mg	药典检测方法 Pharmacopoeia testing methods
外源DNA残留量 Residual amount of foreign aid DNA	≤10ng/mg	药典检测方法 Pharmacopoeia testing methods
分子量 Molecular weight	6215Da	SDS-page电泳检测 SDS-page electrophoresis detection

■ 储存和运输稳定性 STORAGE AND TRANSPORT STABILITY



常规储存在 $\leq -20^{\circ}\text{C}$ ，1年活性不损失；
Conventional storage at $\leq -20^{\circ}\text{C}$, with no loss of activity for 1 year;



解冻后，无菌情况下（2至 8°C ），1月活性基本无损失。
After thawing, under sterile conditions (2 to 8°C), there was basically no loss of activity for one month.

■ 产品优势 PRODUCT ADVANTAGES

无动物源性
NO ANIMAL ORIGIN

重组生产，无外源性的病毒污染，生产过程不使用任何动物源原料。

Recombinant production, no external virus contamination, and no use of animal origin raw materials in the production process.

质量稳定
STABLE QUALITY

批量生产（10+g级生产和供应），可保证稳定连续的批次生产；产品批次间无差异，质量稳定。

Batch production (10+g level production and supply) can ensure stable and continuous batch production; There is no difference between product batches, and the quality is stable.

纯度高
HIGH PURITY

比活高；宿主蛋白残留小于生物制品限度要求。

high specific activity; The residual host protein is less than the limit requirement for biological products.

冻干粉
FREEZE DRIED POWDER

易于储存和运输

easy to store and transport.

符合法规要求
COMPLIANCE WITH REGULATORY REQUIREMENTS

生产设备和生产环境符合相关法规要求，生产过程完全符合GMP指导原则。

Production equipment and environment comply with relevant regulatory requirements, and the production process fully complies with GMP guidance principles.

■ 产品使用与建议 PRODUCT USE AND SUGGESTIONS

溶解时：建议用PBS溶解，溶解浓度不超过1mg/ml，现用现配。

When dissolving: It is recommended to dissolve with PBS, with a dissolution concentration of no more than 1mg/ml, and prepare it as needed.

细胞培养推荐使用浓度：5-100 $\mu\text{g/L}$

Recommended concentration for cell culture: 5-100 $\mu\text{g/L}$

推荐使用细胞系：Vero细胞、BHK细胞、二倍体细胞用于生产病毒颗粒等；多能干细胞、间充质干细胞、肌肉干细胞。

Recommended cell lines: Vero cells, BHK cells, diploid cells for producing virus particles, etc; Pluripotent stem cells, mesenchymal stem cells, muscle stem cells.

■ 相关产品 RELATED PRODUCTS

长链胰岛素生长因子
LR3 IGF-1

重组碱性成纤维生长因子
bFGF

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