



Asia Hepato Gene Co. Product Datasheet

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rhEGF (recombinant human Epidermal Growth Factor) 重組 人表皮生長因子

人表皮生長因子 (EGF) 是位於 4 號染色體上，由 53 個氨基酸組成的肽片段，含有 6 個半胱氨酸 (cys)，半胱氨酸之間形成穩定的雙硫鍵，形成分子內的 3 個環狀結構，能與受體結合且有活性，沒有糖基化，抗酸鹼，耐熱。

EGF 的體外作用主要是傷口癒合時，促進上皮和內皮細胞生長，並刺激成纖維細胞的趨化性遷移到損傷部位，促進成纖維母細胞產生膠原蛋白。逆分化和退黑色素的特性，使老化的皮膚除皺、淡斑、增加彈性和光澤。應用領域：

臨床醫學-燒燙傷、皮膚和胃潰瘍、褥瘡、角膜損傷
皮膚保健-淡斑、曬傷修復、增加彈性和光澤
口腔保健-牙齦萎縮、牙齦炎、口腔潰瘍

PDGF 與 EGF 比較	EGF	PDGF-BB
創面修復	有	有
上皮細胞生長	有	無
血管形成	無	有
膠原蛋白合成	有	有

產品規格：

品名：rhEGF

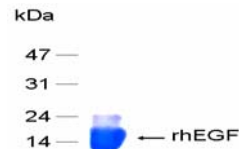
表達宿主：大腸桿菌

包裝：5mg rhEGF 白色粉末 (無菌、無防腐劑)

純度：≥90% (SDS-PAGE 蛋白質電泳分析，如圖)

活性(ED50)：50 ng/ml

用量：1mg 製作 1 公升產品為標準



注意事項：

1. 溫度 45°C 以下，PH 值避開 4.5
2. 避免與植物萃取液內含生物鹼等原料直接混合
3. 5mg rhEGF 白色粉末加入水(標示在瓶上)混均勻後再取用
4. 避免與釋放甲醛的防腐劑合用

參考資料：

烧伤学临床新视野/：烧伤休克、感染、营养、修复与整复 清华大学出版社

Human epidermal factor (EGF) is located on chromosome 4, with a peptide fragment composed of 53 amino acids, the chain contains six cysteine (cys), between cysteine form stable disulfide bond, formed 3 ring structures constitute the essential biological activity of a receptor binding domain, no glycosylation sites, resist to acid and heat.

In vitro effects of EGF is mainly to promote the growth of epithelial cells, endothelial cells during wound healing and stimulate fibroblast chemotaxis to migrate to the site of injury and to promote fibroblasts to produce collagen. Characteristics skin growth and inverse differentiation and withdrawal of melanin, the aging skin can wrinkle fade away, newborn skin, increase elasticity and shine.

Applications:

Clinical-Burns, skin ulcers, gastric ulcers, pressure ulcers, corneal damage

Skin Care- Blemish, sunburn repair, increase flexibility and gloss

Oral Health- Gingival recession, gingivitis, oral ulcers

PDGF V.S. EGF	EGF	PDGF-BB
Wound repair	presence	presence
Epithelium growth	Yes	No
Vascularization	No	Yes
Collagen synthesis	Yes	Yes

Product Specifications:

Product Name: rhEGF

Expression Host: E. coli

Package: 5mg rhEGF white powder (sterile, no preservatives)

Purity: ≥ 90% (SDS-PAGE electrophoresis protein separation, as left figure)

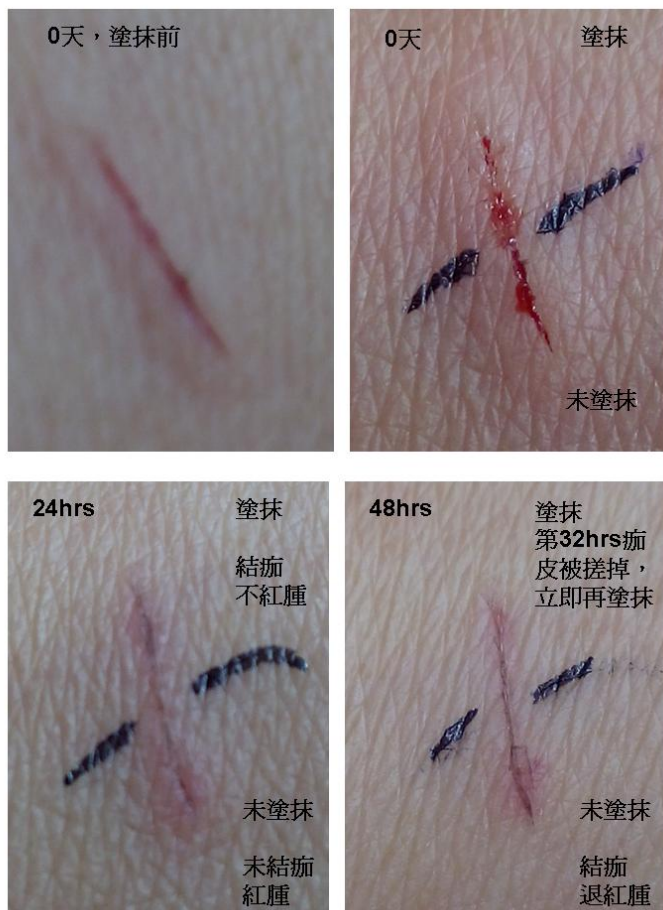
Bioactivity (ED50): 50 ng/ml

Dosage: 1mg produce 1 liter product as standard

Note:

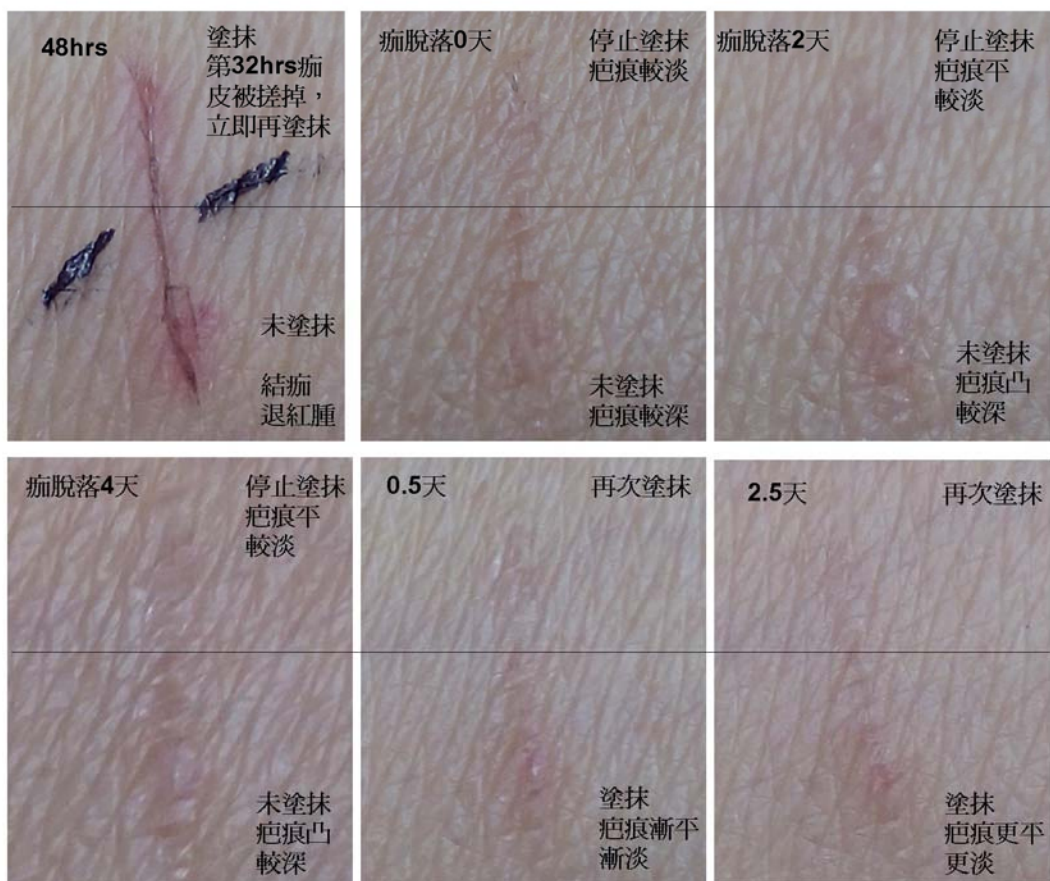
1. keep temperature below 45 °C, avoid PH 4.5
2. Avoid direct mixing extracts containing alkaloids
3. Before use add ddH₂O (see the bottle) into 5 mg rhEGF white powder
4. Avoid release formaldehyde preservatives

A. rhPDGF-BB + rhEGF 製劑 促進傷口癒合



B. rhPDGF-BB + rhEGF 製劑 消除紅腫、淡化疤痕

塗抹 2 天後，停止塗抹，兩邊結痂同時脫落



C. rhPDGF-BB + rhEGF 製劑 淡化手部新疤痕色斑

塗抹第**0**天



塗抹第**5**天



塗抹第**10**天

