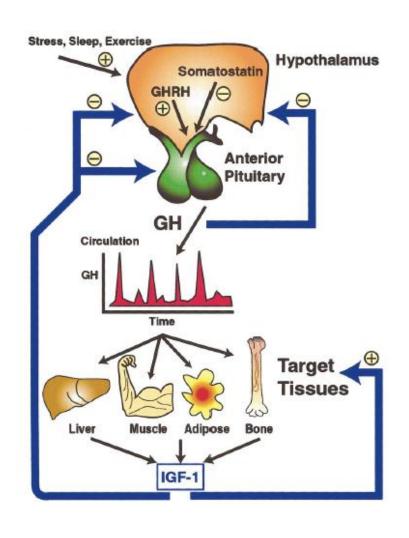


Caretropin (Recombinant Human Growth Hormone)



Mechanism of Action

- ► Secreted from a pituitary gland
- ► Binds to target tissues and activates their metabolism
 - → Promote bone-growth
 - → Facilitate IGF-1 synthesis
 - → Increase protein synthesis
 - → Decrease glucose level in blood
 - → Facilitate degradation of fat, etc.



Caretropin - Product

Lyophilized powder (4 IU, 16 IU)



- ► Current status
 - 4 IU: Approved in 2011 by Korean FDA
 - 16 IU: Approved in 2007 by Korean FDA
- ► Stability
 - 16 IU: Stable for 24 months
 (Stability test will be conducted at 30 and 36 months)
 - 4 IU: Stable for 12 months
 (Stability test will be conducted at 24, 30 and 36 months)

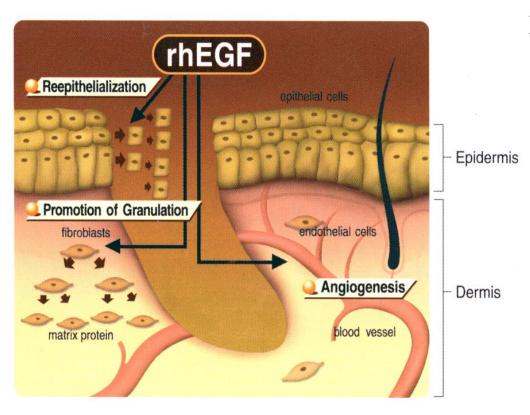
Liquid cartridge with Pen (22 IU)



- ► Current status
 - Approved in Dec. 2010 by Korean FDA
- ► Stability
 - Stable for 18 months
 (Stability test will be conducted at 24, 30 & 36 months)
- ► Pen-type syringe
 - Type: reusable, multidose, dose dialing
 - Injection method: push type
 - 1.5 mL cartridge: ISO 11608-3 compatible



Easyef (Recombinant Human Epidermal Growth Factor)



Mechanism of Action

- ► Re-epithelialization

 promotes epithelial cells to

 proliferate and move to fill wounds
- ► Promotion of granulation
 tissue
 stimulates fibroblasts in dermal
 tissue to facilitate dermal cells to
 differentiate and proliferate.
- ► Angiogenesis

 promotes endothelial cells to

 proliferate to regenerate blood vessels.
- ► Stimulation of several growth factors' synthesis



10mL

Easyef - Product

- ► Classification : Ethical and orphan drug
- ► Ingredients : Recombinant Human EGF
- ► Indication : Diabetic foot ulcer, mucositis
- ► Use & Dose: After mixing active ingredient with attached solvent,

apply to wound twice a day.

- ► Characteristics: Colorless, transparent liquid
- ► Packaging Unit: 10ml (50µg/ml)
- ► Storage: Cold storage (2~8 °C)



Easyef Ointment - Product

► Composition

- 1) Active ingredient: Recombinant Human Epidermal Growth Factor 1ug
- 2) preservative: Isopropyl p-Hydroxybenzoate (KP) 1.5mg
 - * contains no steroid and antibiotic

Leukocyte and macrophase suppress bacterial themselves during the course of wound healing, without steroid and antibiotics which have adverse effect and resistance

- ► **Dosage/usage:** several times per day apply for wound
- ► Indication: wound, topical adjuvant therapy of skin ulcer
- ► **Storage:** Cold storage (2~8 °C)

