

Cat.No # MGF9007

Lot.No : Refer to Vial



Packaging: 100µg \ 500µg \ 1mg

## Description

EGF is a potent growth factor that stimulates the proliferation of various epidermal and epithelial cells. Additionally, EGF has been shown to inhibit gastric secretion, and to be involved in wound healing. EGF signals through a receptor known as c-erbB, which is a class I tyrosine kinase receptor. This receptor also binds with TGF- $\alpha$  and VGF (vaccinia virus growth factor). Recombinant Human EGF is a 6.2 kDa globular protein containing 53 amino acid residues, including 3 intramolecular disulfide bonds.

## Amino acid sequence

NSDSECLSH DGYCLHDGVC MYIEALDKYA CNCVVG YIGE RCQYRDLKWW ELR

## Origin

Recombinant Human Epidermal Growth Factor/EGF is produced by our E. coli expression system. The target protein is expressed with sequence (N971-R1023) of Human EGF.

## Quality control

ED50 is less than 2 ng/ml as calculated by the dose-dependent proliferation of murine BALB/c 3T3 cells. Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.

## Dissolution

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

## Reactivity

Cow, Hamster, Monkey, Mouse, Pig, Rabbit, Rat, Human, Human + Mouse, Chicken, Tunicate, Salamander

## Store condition

Lyophilized protein should be stored at  $< -20^{\circ}\text{C}$ , though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at  $4-7^{\circ}\text{C}$  for 2-7 days. Aliquots of reconstituted samples are stable at  $< -20^{\circ}\text{C}$  for 3 months.

**For Research Use Only. Not for use in diagnostic procedures.**

