



Recombinant Human EGF protein

E13-007

Catalog Number: E13-007-1, E13-007-2**Amount:** 10µg, 50µg**Product description:** Human EGF produced in E. coli is non-glycosylated polypeptide chain containing 55 amino acids (3-55 a.a.; predicted MW=6.4kDa.). The recombinant protein was purified by anion exchange chromatography and gel filtration chromatography. Purity is greater than 98% by SDS-PAGE and Coomassie blue staining (Figure 1).**Background:** EGF (epidermal growth factor) is a mitogenic polypeptide with 53 amino acid residues and three intramolecular disulfide bonds. EGF plays an important role in the regulation of cell growth, proliferation, and differentiation. EGF can promote wound healing and organogenesis. EGF is commonly used as a supplement in serum-free or reduced serum media for culture of mammalian cells. EGF is applicable to cosmetics such as whitening and crinkle prevention.**GenBank accession number:** NP_P01133**Amino acid sequence:**

MGNSDSECPLSHDGYCLHDGVCMYIEALDKYACNCVVGYIGERCQYRDLKWWELR

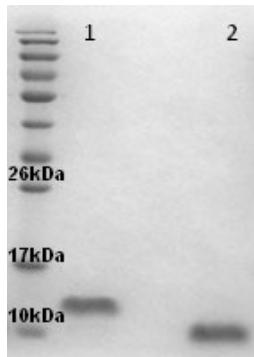
Formulation: Lyophilized from a 0.22µm filtered solution at a concentration of 1mg/ml in 20mM Tris-HCl, pH8.0, 150mM NaCl.**Reconstitution:** We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water to a concentration of 1.0 mg/ml.**Shipping&Stability:** The Product is shipped at ambient temperature. Upon reconstitution, the preparation is stable for up to 1 month at 2-8°C. For long term storage, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.

Figure1. The purity of recombinant protein EGF (E13-007). 12 % SDS-PAGE, 2µg protein without (lane 1) and with (lane 2)DTT.