



# Recombinant Protein Technical Manual

## Recombinant Human EGF Protein (Active)

RPES2898

### Product Data:

**Product SKU:** RPES2898

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** P01133

### Protein Information:

**Molecular Mass:** 6.2 kDa

**AP Molecular Mass:** 11 kDa

#### Tag:

**Bio-activity:** Measured in a cell proliferation assay using BALB/c 3T3 cells. The ED50 for this effect is 60-450 pg/ml.

**Purity:** > 95% as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of 20mM Tris, 200mM NaCl, pH 8.0.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:** Cell Culture

**Synonyms:** Pro-Epidermal Growth Factor; EGF; Epidermal Growth Factor; Urogastrone

## Immunogen Information:

**Sequence:** Asn971-Arg1023

## Background:

Epidermal growth factor (EGF) is a small 53 amino acid residue long protein that contains three disulfide bridges. It is a small mitogenic protein that is thought to be involved in mechanisms such as normal cell growth, oncogenesis, and wound healing. EGF stimulates the growth of various epidermal and epithelial tissues in vivo and in vitro and of some fibroblasts in cell culture. This protein shows both strong sequential and functional homology with human type-alpha transforming growth factor (hTGF alpha), which is a competitor for EGF receptor sites.