

## **BACKGROUND:**

Epidermal growth factor (EGF) is a growth factor that stimulates the proliferation, differentiation, and survival of epithelial and epidermal cells. EGF contains three intramolecular disulfide bonds and binds in high affinity to the epidermal growth factor receptor (EGFR).

Recombinant rat Epidermal growth factor is a nonglycosylated protein monomer, containing 54 amino acids and having a molecular mass of 6.3 kDa.

### Cat. No.:

RP3005

#### **Alternate Names:**

Urogastrone, URG

#### AA Sequence:

MNSNTGCPPS YDGYCLNGGV CMYVESVDRY VCNCVIGYIG ERCOHRDLRW WKLR

## **TECHNICAL INFO**

#### Source:

E. coli

### **Physical Appearance:**

Sterile Filtered white lyophilized (freeze-dried) powder.

#### Formulation:

10 mM sodium phosphate, pH 7.5

## Stability:

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

## Reconstitution:

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at 0.1 mg/mL, which can be further diluted into other aqueous solutions.

## Protein Content and Purity determined by:

- UV spectroscopy at 280 nm.
- RP-HPLC calibrated against a known standard.
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

# **Endotoxin Level:**

Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

### **Biological Activity:**

The activity is measured by dose-dependent BALB/c 3T3 cell proliferation, with Bioactivity Acceptance Criteria ED50 at 1 ng/mL.







