

## 32-12033: Human Epidermal Growth Factor (AF)

**Gene :** EGF  
**Gene ID :** 1950  
**Uniprot ID :** P01133  
**Alternative Name :** Urogastrone

### Description

**Source:** Genetically modified E.coli.

**Predicted MW:** Monomer, 6.2 kDa (53 aa)

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). EGF is overexpressed in multiple tumor cell lines and promotes resistance to chemotherapy and radiation treatments.

### Product Info

**Amount :** 500 µg / 1 mg  
**Purification :** Reducing and Non-Reducing SDS PAGE at  $\geq 95\%$   
**Content :** Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)  
Sterile water at 0.1 mg/mL  
**Storage condition :** Store at  $-20^{\circ}\text{C}$   
**Amino Acid :** NSDSECLPSHÂ DGYCLHDGVCÂ MYIEALDKYAÂ CNCVVG YIGÊÂ RCQYRDLKWWÂ ELR

### Application Note

**Endotoxin:** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.

Biological Activity was determined by 3T3 cell proliferation at  $\leq 100$  pg/mL;  $\geq 1.0 \times 10^7$  units/mg (typical ED50 is 10-50 pg/mL). Centrifuge vial before opening, Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at  $-80^{\circ}\text{C}$  and avoid repeat freeze thaws. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vial to compensate for this loss.



