

## Product Information Sheet

### Recombinant Human EGF

#### Animal-Free manufactured

**Catalog#** AF-100-15

**Source:** *E.coli*

**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.

**Synonyms:** Epidermal Growth Factor, Urogastrone, URG

**Sequence:** NSDSECLSH DGYCLHDGVC MYIEALDKYA CNCVVGYIGE RCQYRDLKWW ELR

**Authenticity:** Verified by N-terminal and Mass Spectrometry analyses (when applicable).

**Purity:**  $\geq 98\%$  by SDS-PAGE gel and HPLC analyses.

**Endotoxin:** Endotoxin level is  $< 0.1$  ng/ $\mu$ g of protein ( $< 1$  EU/ $\mu$ g).

**Protein Content:** Verified by UV Spectroscopy and/or SDS-PAGE gel.

**Biological activity:** Determined by its ability to stimulate the proliferation of mouse Balb/c 3T3 cells. The expected ED<sub>50</sub> is  $\leq 0.1$  ng/ml, corresponding to a specific activity of  $\geq 1 \times 10^7$  units/mg.

For a list of references please visit our website at [www.peprotech.com](http://www.peprotech.com)

**Country of Origin:** USA

Lot-specific information is not available on Product Information Sheet.  
See Certificate of Analysis for details.

**Usage:** For Research Use Only. Not for use in diagnostic or therapeutic procedures.

#### Storage/Stability:

Product Form	Temperature	Storage Time
Lyophilized	-20°C to -80°C	See expiration date
Lyophilized	4°C	6 months
Lyophilized	RT	1 month
Diluted as per CoA	-20°C to -80°C	12 months
Diluted as per CoA	2°C to 8°C	1 week
**Avoid repeated freeze-thaw cycles.		