



## TECHNICAL DATA SHEET

### Human EGF

Human Epidermal Growth Factor, recombinant

Synonyms: Urogastrone, URG

*PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING*

Size	Order #	Lot #	Expiry Date*
500µg	W 1325950500	3509080530	March 2011

### Description

Recombinant human Epidermal Growth Factor (EGF) is a 6.2 kDa globular protein containing 53 amino acid residues including 3 intramolecular disulfide-bonds. EGF is a potent growth factor, which 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). Manufactured using all non-animal reagents.

- **Biological activity**  $\geq 1 \times 10^7$  units/mg.
- **Source** *E.coli*
- **Purity**  $\geq 98$  % (SDS-PAGE, HPLC)
- **Endotoxin level**  $\leq 0.1$  ng/µg ( $\leq 1$  EU/µg)
- **Stabilizer** None
- **Buffer** None
- **Physical state** Sterile filtered, lyophilized

### Biological activity

The ED<sub>50</sub> of  $\leq 0.1$  ng/ml was determined by a cell proliferation assay using BALB/c 3T3 cells. It corresponds to a specific activity of  $\geq 1 \times 10^7$  units/mg.

### Reconstitution

We recommend a quick spin followed by reconstitution in water to a concentration of 0.1-1.0mg/ml. The solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or at -20°C for future use.

### Stability

The lyophilized protein is stable for at least 2 years from date of receipt at -20°C. Reconstituted EGF is stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C.

**Please avoid repeated freeze-thaw cycles.**

### Usage

*FOR RESEARCH USE ONLY*

*NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES*

\* For lyophilized product if stored as indicated. Please contact our technical support if the product has expired.

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