

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	3503110500	October 2013

**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 with non-animal reagents.

- **Biological activity**  $\geq 1.0 \times 10^7$  units/mg
- **Source** *E. coli*
- **Purity**  $\geq 98\%$  (SDS-PAGE, HPLC)
- **Endotoxin level**  $\leq 0.1 \text{ ng}/\mu\text{g}$  ( $\leq 1 \text{ EU}/\mu\text{g}$ )
- **Stabilizer** None
- **Buffer** None
- **Physical state** Sterile filtered, lyophilized

**Biological activity**

The ED<sub>50</sub> of  $\leq 0.1 \text{ ng/ml}$  was determined by its ability to stimulate the proliferation assay using mouse BALB/c 3T3 cells. It corresponds to a specific activity of  $\geq 1.0 \times 10^7$  units/mg.

**Reconstitution**

We recommend a quick spin followed by reconstitution in water to a concentration of 0.1-1.0 mg/ml. *Do not vortex*. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier (example 5% Trehalose) and store in working aliquots at -20°C to -80°C.

**Stability**

The lyophilized protein is stable at room temperature for up to 1 month. Reconstituted human EGF is stable for at least 12 months when stored in working aliquots with a carrier protein at -20°C to -80°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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