

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*
100µg	1325.950.100	3512090500	October 2012

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** $\geq 1.0 \times 10^7$ units/mg.
- **Source** *E. coli*
- **Purity** ≥ 98 % (SDS-PAGE, HPLC)
- **Endotoxin level** ≤ 0.1 ng/µg (≤ 1 EU/µg)
- **Stabilizer** None
- **Buffer** None
- **Physical state** Sterile filtered, lyophilized

Biological activity

The ED₅₀ of ≤ 0.1 ng/ml was determined by its ability to stimulate the proliferation of 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 protein (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. Working aliquots stored with a carrier protein are stable for at least 12 months 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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