

TECHNICAL DATA SHEET

Murine EGF

Murine Epidermal Growth Factor, recombinant

*PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING***Size** **Order #**
500 µg W1325960500**Lot #** **Expiry Date***
3508081790 December 2012**Description**

Recombinant Murine Epidermal Growth Factor (mEGF) is a 6.0 kDa protein containing 53 amino acid residues, including 3 intramolecular disulfide-bonds. It 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 (vagina virus growth factor).

- **Biological activity** $\geq 1 \times 10^7$ units/mg.
- **Source** *E. coli*
- **Purity** ≥ 98 % (SDS-PAGE, HPLC)
- **Endotoxin level** ≤ 0.1 ng/µg (≤ 1 EU/µg)
- **Stabilizer** None
- **Buffer** Sodium Phosphate (10mM; pH 8.2)
- **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 $\geq 1 \times 10^7$ units/mg.

Reconstitution

We recommend a quick spin followed by reconstitution in water to a concentration of 0.5-1.0 mg/ml. *Do not vortex*. This solution can be diluted into other aqueous buffer and stored in working aliquots at 2-8°C up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Stability

The lyophilized protein is stable at room temperature for up 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.

Biochrom AG, Leonorenstr. 2-6, 12247 Berlin
Phone: +49 30 77 99 06-92
Fax: +49 30 771 00 12
Email: info@biochrom.de
<http://www.biochrom.de>