

**Datasheet****Epidermal Growth Factor**  
**Murine Recombinant**

Product	Description	Catalogue-No.	Size
EGF	Epidermal Growth Factor, murine recombinant	CB-1214120 CB-1214121	100 µg 500 µg

**Product description**

Synonyms: Urogastrone, URG, EGF

Epidermal growth factor (EGF) has a profound effect on the differentiation of specific cells in vivo and is a potent mitogenic factor for a variety of cultured cells of both ectodermal and mesodermal origin. The EGF precursor is believed to exist as a membrane-bound molecule which is proteolytically cleaved to generate the 53-amino acid peptide hormone that stimulates cells to divide. EGF stimulates the growth of various epidermal and epithelial tissues in vivo and in vitro and of some fibroblasts in cell culture.

EGF murine rec. produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 53 amino acids including 3 intramolecular disulfide-bonds and having a molecular mass of 6 kDa.

EGF is purified by proprietary chromatographic techniques.

**Solubility and storage conditions**

It is recommended to reconstitute the lyophilized EGF in sterile 18MΩ-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Lyophilized EGF although stable at room temperature for 3 weeks, should be stored desiccated below -20°C. Upon reconstitution EGF should be stored at 2-8°C between 2-7 days and for future use below -20°C.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Composition**

The protein was lyophilized with no additives

Purity: > 95.0% as determined by SDS-PAGE and RP-HPLC

Amino acid sequence: NSYPGCPSSY DGYCLNGGVC MHIESLDSYT CNCVIGYSGD RCQTRDLRWW ELR.

Biological activity: The activity is determined by the dose-dependent proliferation of mouse BALB/c 3T3 cells and is typically < 0.1ng/ml.

**Technical support**

For technical support, questions or remarks please contact your local PAN-Biotech partner or the technical department of PAN-Biotech via email ([info@pan-biotech.com](mailto:info@pan-biotech.com)) or phone +49-8543-601630.

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