



## Epidermal Growth Factor, His Tag, mouse recombinant (rmEGF-His)

**Catalog No:** 97434  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** Urogastrone, URG, EGF

### Background

Epidermal growth factor 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.

### Description

EGF mouse recombinant produced in *E. coli* is a single polypeptide chain containing 77 amino acids (977-1029) and having a molecular mass of 8.6 kDa. EGF is fused to a 24 amino acid His Tag at N-terminus and purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered colorless solution.

### Formulation

The EGF solution (0.5 mg/1 ml) contains 20 mM Tris-HCl buffer (pH 8.0), 100 mM NaCl, 2 mM DTT and 10% glycerol.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Purity

Greater than 90% as determined by SDS-PAGE.

### Amino Acid Sequence

MGSSHHHHHH SSSLVPRGSH MGSMSYPGC PSSYDGYCLN GGVCMHIESL DSYTCNCVIG YSGDRCQTRD LRWWEELR

### Usage

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