

## Active Native Mouse Egf

**Cat. No.** Egf-634M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Epidermal Growth Factor Mouse purified from submaxillary gland is a single, glycosylated, polypeptide chain having a molecular mass of 6.1 kDa. The EGF is purified by proprietary chromatographic techniques.                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | Mouse Submaxillary Gland                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | 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. |
| <b>Form</b>             | Sterile Filtered White lyophilized (freeze-dried) powder. The protein was lyophilized from a concentrated (1mg/ml) solution containing 0.01M sodium acetate buffer.                                                                                                                                                                                                                                                                                                                                                               |
| <b>Bio-activity</b>     | The biological activity is measured in a proliferation assay using BALB/MK cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>           | Greater than 98.0% as determined by RP-HPLC and SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Usage</b>            | The products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or                                                                                                                                                                                                                                                                                                                                                                         |

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household chemicals.

**Stability**

Lyophilized Epidermal Growth Factor Mouse although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution EGF should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it

**Reconstitution**

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

## GENE INFORMATION

**Gene Name**

Egf epidermal growth factor [ *Mus musculus* ]

**Official Symbol**

Egf

**Synonyms**

EGF; epidermal growth factor; pro-epidermal growth factor; Pro-epidermal growth factor precursor (EGF); AI790464;

**Gene ID**

13645

**mRNA Refseq**

NM\_010113

**Protein Refseq**

NP\_034243

**Pathway**

Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Delta-Notch Signaling Pathway, organism-specific biosystem; Disease, organism-specific biosystem; EGFR downregulation, organism-specific biosystem;

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**Function**

calcium ion binding; epidermal growth factor receptor binding; epidermal growth factor receptor binding; growth factor activity; protein binding;

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