

Active Native Mouse Egf

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

SPECIFICATION

Product Overview	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.
Species	Mouse
Source	Mouse Submaxillary Gland
Description	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.
Form	Sterile Filtered White lyophilized (freeze-dried) powder. The protein was lyophilized from a concentrated (1mg/ml) solution containing 0.01M sodium acetate buffer.
Bio-activity	The biological activity is measured in a proliferation assay using BALB/MK cells.
Purity	Greater than 98.0% as determined by RP-HPLC and SDS-PAGE.
Usage	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 H₂O 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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