

Active Recombinant Mouse Egf Protein (54 aa)

Cat. No. Egf-427E Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant mouse Epidermal Growth Factor (rmEGF) produced in E. coli is a single non-glycosylated polypeptide chain containing 54 amino acids. A fully biologically active molecule, rmEGF is obtained by proprietary chromatographic techniques with a molecular mass of 6.2kDa analyzed by reducing SDS-PAGE.

Species Mouse

Source E.coli

ProteinLength 54

Description Epidermal Growth Factor (EGF) was originally discovered in crude preparations of nerve growth factor prepared from mouse submaxillary glands as an activity that induced early eyelid opening, incisor eruption, hair growth inhibition, and stunting of growth when injected into newborn mice. EGF 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 (vaccinia virus growth factor).

Form Sterile Filtered White lyophilized (freeze-dried) powder.

Bio-activity ED50 < 0.1 ng/mL, measured by a cell proliferation assay using BALB/c 3T3 cells, corresponding to a specific activity of > 1.0 × 10⁷units/mg.

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Molecular Mass	6.2 kDa, observed by reducing SDS-PAGE.
AA Sequence	MNSYPGCPSSYDGYCLNGGVCMHIESLDSYTCNCVIGYSGDRCQTRDLRWWELR
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% by SDS-PAGE and HPLC analysis.
Storage	Lyophilized recombinant mouse Epidermal Growth Factor (rmEGF) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rmEGF should be stable up to 2 weeks at 4 centigrade or up to 3 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O at 100 μg/mL.

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); A1790464;
Gene ID	13645
mRNA Refseq	NM_010113
Protein Refseq	NP_034243

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UniProt ID

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