

Active Recombinant Mouse Epidermal Growth Factor

Cat. No. Egf-557M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Epidermal Growth Factor Mouse Recombinant 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.
Species	Mouse
Source	E.coli
Description	Recombinant Mouse Epidermal Growth Factor has an 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. EGF stimulates the growth of various epidermal and epithelial tissues in vivo and in vitro and of some fibroblasts in cell culture.
Form	Lyophilized with no additives.
Purity	Purity Greater than 97% as determined by: Reducing and non-reducing SDS-PAGE. Analytical HPLC.
Bio-activity	Mouse EGF is fully biologically active when compared to standard. The ED50, calculated by the dose-dependant proliferation of mouse BALB/c 3T3 cells is 0.02 ng/ml.
Physical Appearance	Sterile Filtered white lyophilized (freeze-dried) powder.

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Solubility	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 - 0.5 mg/s/ml, which can be further diluted into other aqueous solutions.
Purity Greater than 97% as determined by	Reducing and non-reducing SDS-PAGE. Analytical HPLC
Protein Content determined by	UV spectroscopy at 280 nm. Quantitation on SDS-PAGE against a known standard.
Endotoxin Level	Endotoxin level as measured by LAL is <0.01ng/ug or <0.1EU/ug.
Amino acid sequence	NSYPGCPSSY DGYCLNGGVC MHIESLDSYT CNCVIGYSGD RCQTRDLRWW ELR
Storage	Lyophilized product is very stable at -20 degrees. Reconstituted material should be aliquoted and frozen at -20. It is recommended to add a carrier protein (0.1% HSA or BSA) for long term storage.

GENE INFORMATION

Gene Name	Egf epidermal growth factor [<i>Mus musculus</i>]
Official Symbol	Egf
Synonyms	AI790464; URG; urogastrone; Pro-epidermal growth factor precursor; epidermal growth factor; epidermal growth factor (beta-urogastrone); Egf
Gene ID	13645

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mRNA Refseq	NM_010113
Protein Refseq	NP_034243
UniProt ID	P01132
Chromosome Location	3 G3; 3 65.2 cM
Pathway	Cytokine-cytokine receptor interaction; Endometrial cancer; ErbB signaling pathway; Focal adhesion; Gap junction; Glioma; MAPK signaling pathway; Melanoma; Non-small cell lung cancer; Pancreatic cancer; Prostate cancer; Regulation of actin cytoskeleton
Function	calcium ion binding; growth factor activity
PDB rendering based on 1egf.	