

EGF

Recombinant Mouse Epidermal Growth Factor

Catalog No.	CRE103A CRE103B CRE103C	Quantity:	100 µg 0.5 mg 1.0 mg
Alternate Names:	Beta-urogastrone, Urogastrone, EGF-URO, HMGF, PGF, URG		
Gene ID:	13645		
Description:	<p>Recombinant Mouse 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). Recombinant Mouse EGF is a single, non-glycosylated polypeptide chain containing 53 amino acids including 3 intramolecular disulfide bonds.</p>		
Source:	<i>E. coli</i>		
Molecular Weight:	6.0 kDa		
Formulation:	Lyophilized from a sterile filtered solution containing PBS, pH 7.4		
Purity:	>97% by SDS-PAGE and HPLC		
Endotoxin Level:	<1 EU/µg of Recombinant Mouse EGF		
Biological Activity:	Fully biologically active when compared to standard. The ED ₅₀ determined by a cell proliferation assay using mouse Balb/c 3T3 cells is less than 0.1 ng/ml.		
Specific Activity:	1 x 10 ⁷ units/mg		
Amino Acid Sequence:	NSYPGCPSSY DGYCLNGGVC MHIESLDSYT CNCVIGYSGD RCQTRDLRWW ELR		
Reconstitution:	<p>Centrifuge vial prior to opening. Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/ml. Further dilutions should be made in appropriate buffered solutions.</p>		
Storage & Stability:	<p>The lyophilized protein is stable at 2-8°C. Upon receipt, store desiccated at -20°C. After reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. For long term storage of reconstituted protein, it is recommended that a carrier protein such as 0.1% BSA or HSA be added. This depends on the particular application.</p> <p>Avoid repeated freeze/thaw cycles.</p>		

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