

Egf

Recombinant Rat Epidermal Growth Factor

Catalog No.	CSI20132A CSI20132B CSI20132C	Quantity:	20 µg 100 µg 1.0 mg
Alternate Names:	EGF,HOMG4, URG, urogastrone		
Description:	Epidermal Growth Factor 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).		
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.		
Gene ID:	25313		
Source:	<i>E. coli</i>		
Molecular Weight:	Approximately 6.2 kDa, a single non-glycosylated polypeptide chain containing 54 amino acids, including 3 intramolecular disulfide-bonds.		
Formulation:	Lyophilized from a 0.2 µm filtered solution in PBS, pH 7.4.		
Purity:	97% by SDS-PAGE and HPLC analyses		
Endotoxin Level:	Less than 1EU/µg of rRtEGF as determined by LAL method.		
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:	MNSNTGCPPS YDGYCLNGGV CMYVESVDYR VCNCVIGYIG ERCQHRDLRW WKLR		
Reconstitution:	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. Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed.		
Storage & Stability:	This lyophilized preparation is stable at 2-4°C, but should be kept desiccated at -20°C for long term storage. Upon reconstitution, the preparation is stable for up to one week at 2 -4°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. Avoid repeated freeze/thaw cycles.		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.