

Recombinant Rat Epidermal Growth Factor

Catalog No.	CS360A CS360B CS360C	Quantity:	20 µg 100 µg 1 mg
Alternate Names:	Urogastrone, URG		
Description:	Epidermal Growth Factor (EGF) is a growth factor that stimulates the proliferation of epithelial and epidermal cells. EGF family members are characterized by three intramolecular disulfide bonds and can bind to four different receptor tyrosine kinases known as EGFR/ErbB1, ErbB2, ErbB3, and ErbB4. Recombinant rat EGF is a non-glycosylated protein, containing 54 amino acids.		
Physical Appearance:	Sterile filtered white lyophilized (freeze-dried) powder.		
Source:	<i>E. coli</i>		
Molecular Weight:	6.3 kDa		
Formulation:	Recombinant rat EGF is lyophilized from 10 mM Na ₂ PO ₄ , pH 7.5.		
Purity:	Greater than 95.0% as determined by: HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm		
Endotoxin Level:	Measured by kinetic LAL analysis and is typically ≤ 1 EU/µg protein.		
Biological Activity:	The activity is determined by the dose-dependent proliferation of mouse BALB/c 3T3 cells and is typically less than 0.1 ng/mL.		
Amino Acid Sequence:	MNSNTGCPPS YDGYCLNGGV CMYVESVDYR VCNCVIGYIG ERCQHRDLRW WKLR		
Reconstitution:	Centrifuge vial prior to 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 mg/mL, which can be further diluted into other aqueous solutions.		
Storage & Stability:	Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage. Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed. Avoid repeated freeze-thaw cycles.		

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

