

EGF

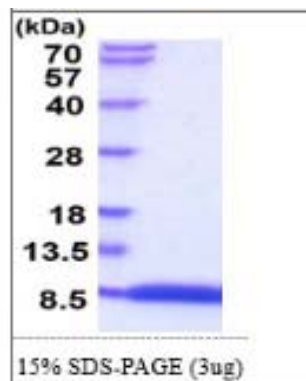
Recombinant Human EGF

Catalog No.	CSI15655A CSI15655B	Quantity:	100 µg 500 µg
Alternate Names:	HOMG4, URG, urogastrone		
Description:	Recombinant human epidermal growth factor (EGF) is a 6.3 kDa globular protein containing 54 amino acids residues, including 3 intra-molecular disulfide bonds. 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. Recombinant EGF was expressed in <i>E.coli</i> and purified by conventional column chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.		
Concentration:	1 mg/mL (determined by Bradford assay)		
GeneID:	1950		
Protein Accession No:	NP_001954		
Source:	<i>E. coli</i>		
Molecular Weight:	6.3kDa (54aa), confirmed by MALDI-TOF.		
Formulation:	Liquid in phosphate buffered saline(PBS), pH 7.4		
Purity:	> 95% by SDS-PAGE		
Biological Activity:	The ED ₅₀ for this effect is ≤ 0.1 ng/mL. Measured in a cell proliferation assay using mouse Balb3T3 cell.		
Amino Acid Sequence:	MNSDSECPLS HDGYCLHDGV CMYIEALDKY ACNCVVG YIG ERCQYRDLKW WELR		
Application:	SDS-PAGE		
Storage & Stability:	Store at 4 °C short term (1-2 weeks). For long term aliquot and store at -20 °C to -70 °C. Avoid repeated freeze/thaw cycles.		



Activity Assay:

Cell line: Balb-3T3 (Mus musculus (mouse))
Maintenance Condition: RPMI 1640 containing 10% FBS
Assay medium: serum free RPMI 1640
Cell density: 2 x 10,000 cells/well (96 well plate, final volume 100ul)
Serum Free Starvation: 24 hr with RPMI1640
Incubation time: 24 hr (after sample treatment)
Concentration range: 1 pg/ml - 1 ug/ml
Detection method: BrdU assay



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