## cellsciences.com

## Animal, Bacterial & Viral Free - Low Endotoxin - Ultra Pure - High BioActivity **EGF**

## Recombinant Human Epidermal Growth Factor, EGF, Endotoxin Free

Catalog No.	CRO507A CRO507B CRO507C CRO507D	Quantity:	10 μg 50 μg 1 mg 100 μg
Alternate Names: Description:	Pro-epidermal growth factor, Urogastrone Epidermal Growth Factor (EGF) is a potent growth factor that plays an important role in the regulation of cell growth, proliferation and differentiation. It stimulates the proliferation of various epidermal and epithelial cells. EGF has been shown to inhibit gastric secretion, promote colony formation of epidermal cells in culture and to be involved in wound healing. EGF is the prototype of a large family of EGF-like proteins, it signals through the c-erbB receptor. Recombinant human EGF is a globular protein with 3 intramolecular disulfide-bonds essential for biological activity. Approximately 70% homology is found between human EGF and EGF isolated from other species. The relative positions of the cysteine residues is conserved.		
Gene ID:	1950		
UniProtKB:	P01133		
Source:	Recombinant Human EGF is produced in the endosperm of barley grain <i>Hordeum vulgare</i> and is void of any human or animal viral contaminants that could jeopardize stem cell culture.		
Molecular Weight:	Recombinant human EGF contains 53 aa and an N-terminal 6 aa His-tag for a predicted MW of 7 kDa, but migrates with and apparent MW of 9.5 kDa in SDS-PAGE		
Formulation:	Lyophilized from a sterile solution of PBS, pH 7.2		
Purity:	> 95% by SDS-PAGE gel analysis.		
Endotoxin Level:	Endotoxin level is less than 0.005 ng per μg (0.05 EU/μg) as measured by kinetic LAL assay.		
MAT Assay:	Purified recombinant human EGF carries no pyrogenic or pro-inflammatory contaminants, as assayed with monocyte activation test using Human 10-plex Cytokine Assay measuring IL-6, TNF-alpha and IL-1beta induction.		
<b>Biological Activity:</b>	ED <sub>50</sub> < 0.1 ng/ml, determine	ed by the dose dependent pro	oliferation of 3T3 cells.
Specific Activity:	> 1.0 x 10 <sup>7</sup> U/mg		
Reconstitution:	<b>Centrifuge vial prior to opening</b> . Reconstitute the lyophilized protein in sterile water to a concentration of no less than 100 $\mu$ g/ml. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). <b>Please note that the addition of any carrier protein into this product may introduce endotoxin. Depending upon the particular application employed, this may be undesirable.</b>		



Toll Free: 888-769-1246 Phone: 978-572-1070 Fax: 978-992-0298



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Storage & Stability:

The lyophilized protein, though stable at room temperature for few weeks, is best stored at -20°C. Reconstituted protein should be used immediately or stored in working aliquots at -20°C. Avoid repeated freeze-thaw cycles.

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



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