


Human EGF protein

Cat # PRP1956

Size: 100 ug/500 ug/1 mg/10 mg

Product Information

	Product Name: Human EGF protein		
REF	Catalog Number: PRP1956	LOT	Lot Number: Refer to product label
	Purity: > 96 % as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: <i>E.coli</i>
	Shipping: The product is shipped at ambient temperature.		

Background: Epidermal growth factor (EGF) is a small growth factor containing 53 amino acid residues that promotes the proliferation of mesenchymal and epidermal cells. Mature proteins, much smaller than 53aa, are produced by protein hydrolysis in the proximal EGF domain across the membrane. EGF is well preserved in mammals, and the EGF in mature humans is 70% the same as that in mice and mice. EGF and fibroblast growth factor 2 (fgf-2) induce the proliferation of neural precursor cells isolated from specific parts of the embryonic and adult brain. EGF and somatopodin c supplemental medium were substituted for 5% thrombocytopenic anemia plasma (PPP) and had the ability to inhibit BALB/C-3T3 cell density. The biological activities of EGF include epithelium formation, angiogenesis, inhibition of gastric acid secretion, proliferation of fibroblasts, and colony formation of epidermal cells in culture.

Sequence: Amino acid sequence derived from Human EGF protein (Met 970-Arg1023)(P01133) was expressed.

Protein length: The recombinant human EGF consisting of 54 amino acids and has a calculated molecular mass of 6.35 kDa as estimated in SDS-PAGE under reducing conditions.

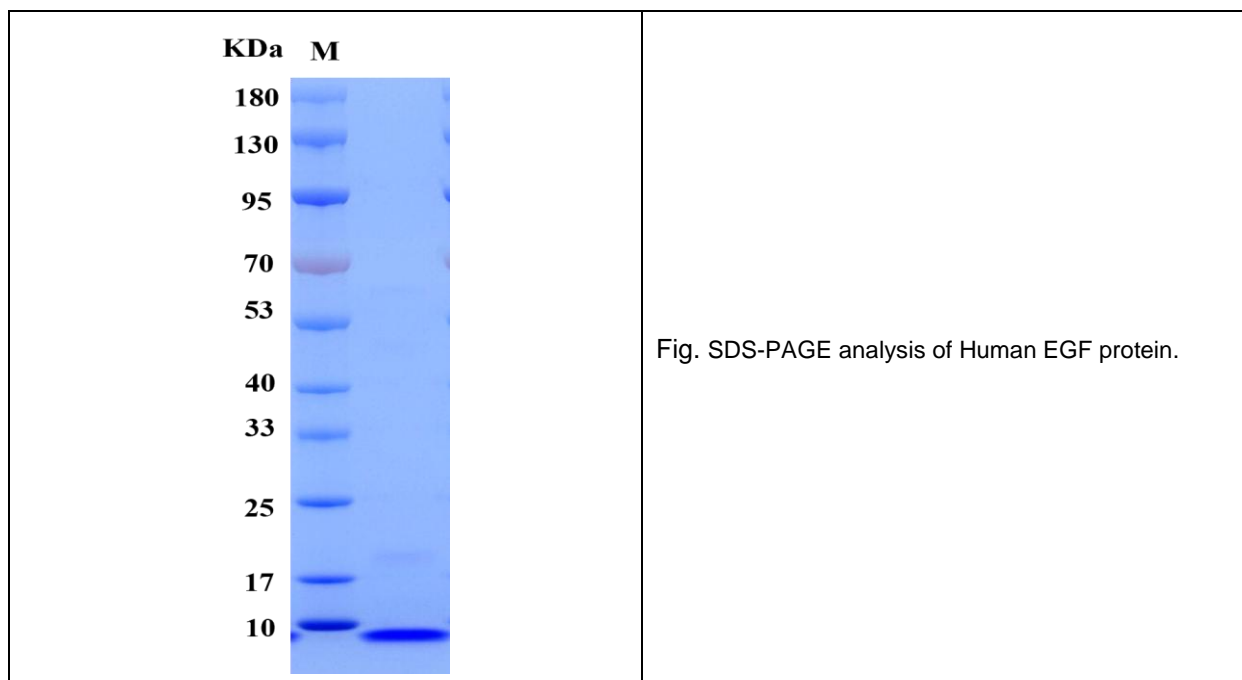
Endotoxin: <0.1 EU per 1 µg of the protein by the LAL method.

Formulation: Lyophilized from sterile 150 mM NaCl 20 mM Tris , pH 8.0.

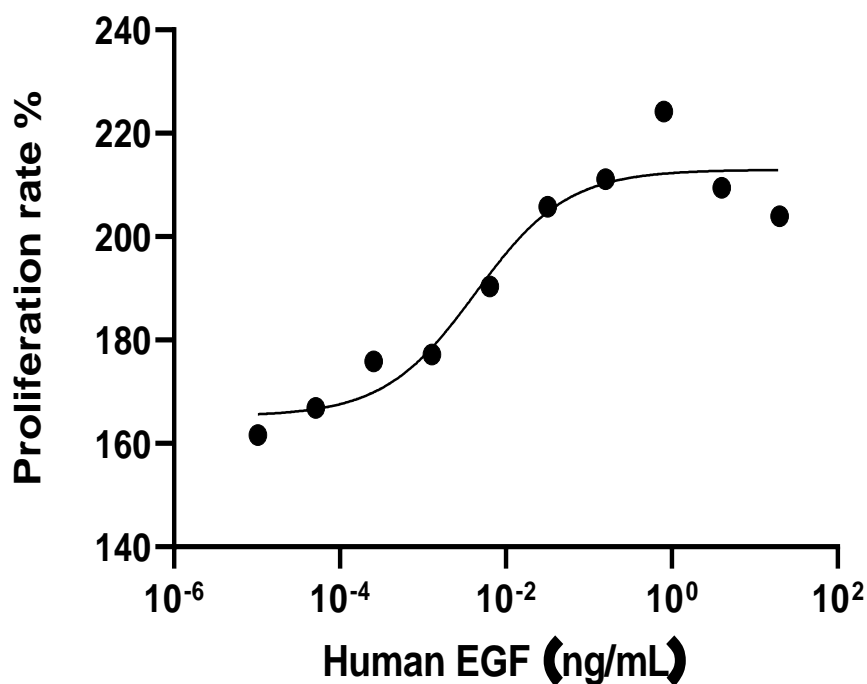
Storage Instructions: Lyophilized protein product should be stored desiccated below -18°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (5% HSA , 10%FBS or 0.1%BSA). Please prevent freeze-thaw cycles.

Usage notes: Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized recombinant human EGF protein to a concentration of 0.1-1 mg/mL in sterile ddH₂O, and keep at room temperature for at least 20 min to fully

dissolve. Please avoid vortex vigorously.



Biological Activity: Measured in a cell proliferation assay using Balb/c 3T3 mouse embryonic fibroblasts. The ED₅₀ for this effect is typically 0.004 ng/mL. The specific activity of recombinant Human EGF is approximately $>2.5 \times 10^8$ IU/mg.



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