

Product datasheet for **TP728186M**

Recombinant EGF (Epidermal growth factor), Human

Product data:

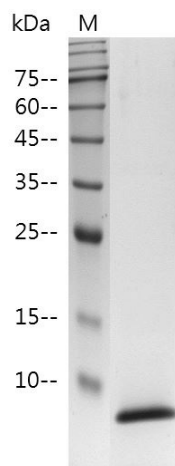
Product Type:	Recombinant Proteins
Description:	Recombinant EGF (Epidermal growth factor), Human
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MNSDSECLSHDGYCLHDGVCMYIEALDKYACNCVVGYGIGERCQYRDLKWWELR with polyhistidine tag at the C-terminus
Tag:	His Tag (C-term)
Predicted MW:	The protein has a calculated MW of 7.16 kDa. The protein migrates as 9-11 kDa under reducing condition (SDS-PAGE analysis).
Purity:	>95% as determined by SDS-PAGE.
Buffer:	The protein was lyophilized from a 0.2 µm filtered solution containing 1X PBS, pH 8.0.
Bioactivity:	Measure by its ability to induce 3T3 cells proliferation. The ED ₅₀ for this effect is < 1.0 ng/mL. The specific activity of recombinant human EGF is approximately >1.0 x 10 ⁶ IU/mg.
Endotoxin:	<0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution Method:	Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 100 µg/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.
Applications:	Cell culture
Storage:	Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.
UniProt ID:	P01133
Synonyms:	Urogastrone, URG



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Summary:

Human epidermal Growth Factors (EGF) is a 6 kDa cytokine with 53 amino acid residues. EGF is mainly secreted from ectodermal cells, monocytes, kidney and duodenal glands. Upon binding to its receptor, EGFR, EGF acts to stimulate cell growth and proliferation of epithelial cells, play important roles in many developmental processes including accelerate tooth eruption, inhibits gastric acid secretion, and involve in wound healing.

Product images:

SDS- PAGE analysis of recombinant human EGF