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EGF, HUMAN RECOMBINANT PROTEIN

CATALOG NUMBER:	GF144	**QUANTITY:**	500 µg
LOT NUMBER:			

DESCRIPTION: Epidermal Growth Factor (EGF) is a polypeptide growth factor which stimulates the proliferation of a wide range of epidermal and epithelial cells. Human EGF is a 6.2 kDa protein containing 53 amino acid residues.

SOURCE: *E.coli*

PURITY: Greater than 98% by SDS-PAGE. Endotoxin level is less than 0.1 ng per µg (1EU/ug) of EGF.

ACTIVITY: Human EGF is fully biologically active when compared to standards. The ED50, as determined by its dose-dependent mitogenic activity on BALB/c 3T3 cells is < 1.0 ng/mL

APPLICATIONS: For most *in vitro* applications, EGF exerts its biological activity in the concentration range of 0.5 to 25.0 ng/mL. Responding cells are (partial list): Epidermal mesothelial cells.

PRESENTATION: Lyophilized from sterile filtered 10 mM Sodium Phosphate, pH 7.5, containing no additives.

STORAGE/HANDLING: The lyophilized EGF, though stable at room temperature, is best stored desiccated at -20°C. Reconstitute with water to a concentration of 0.1 - 1 mg/mL. This solution can be diluted into other buffered solutions and stored at 4°C for 1 week or -20°C for future use. Reconstituted EGF should be maintained at -20°C in undiluted aliquots for up to one year.

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 µL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

FOR RESEARCH USE ONLY; NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR HUMAN OR ANIMAL CONSUMPTION

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