

Recombinant Rat EGF

CATALOG #:	4024-20	20 µg
	4024-100	100 µg
	4024-1000	1 mg
LOT #:	_____	
SYNONYMS:	Urogastrone, URG, EGF	
SOURCE:	<i>E. coli</i>	
PURITY:	> 98 % by SDS-PAGE and RP-HPLC	
FORM:	Lyophilized from PBS, pH 7.4	

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in sterile ddH₂O to a concentration ≥ 100 µg/ml. This solution can then be diluted into other aqueous buffer.

STORAGE CONDITIONS:

The lyophilized protein is best-stored desiccated at -20°C. The reconstituted EGF should be stored at 4°C for 2-7 days. For long term storage it is recommended to add a carrier protein (0.1% HAS or BSA) and store as working aliquots at -20°C. Avoid freeze/thaw cycles.

DESCRIPTION:

Epidermal growth factor has a profound effect on the differentiation of specific cells in vivo and is a potent mitogenic factor for a variety of cultured cells of both ectodermal and mesodermal origin. The EGF precursor is believed to exist as a membrane-bound molecule which is proteolytically cleaved to generate the 53-amino acid peptide hormone that stimulates cells to divide. EGF stimulates the growth of various epidermal and epithelial tissues in vivo and in vitro and of some fibroblasts in cell culture. Epidermal Growth Factor Rat Recombinant produced in *E. Coli* is a single, non-glycosylated, polypeptide chain containing 53 amino acids and having a molecular mass of 6151 Dalton. The Rat EGF is purified by proprietary chromatographic techniques.

AMINO ACID SEQUENCE:

NSNTGCPPSYDGYCLNGGVCMYVESVDYVVCNCVIGYIGERCQHRDLRWWKLR

BIOLOGICAL ACTIVITY:

The ED₅₀ as calculated by the dose-dependant proliferation of murine BALB/c 3T3 cells is less than 0.1ng/ml, corresponding to a specific activity of > 1 x 10⁷ units/mg.

FOR RESEARCH USE ONLY! Not to be used in humans.

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- Apoptosis siRNA Vectors

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- Nuclear/Cytosol Fractionation Kit
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