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Epidermal Growth Factor, rat recombinant (rrEGF)

Catalog No: 97283
Lot No: XXXXX
Source: *E. coli*
Synonyms: Urogastrone, URG, EGF

Background

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.

Description

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. Rat EGF is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

EGF was lyophilized from a 0.2 µm filtered concentrated (1.0 mg/ml) solution in PBS, pH 7.4.

Solubility

It is recommended to reconstitute the lyophilized EGF in sterile water not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized EGF, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution rat EGF 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 (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity

Greater than 98.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

Amino Acid Sequence

NSNTGCPPSY DGYCLNGGVC MYVESVDYV CNCVIGYIGE RCQHRDLRWW KLR

Activity

The ED50 as calculated by the dose-dependant proliferation of murine BALB/c 3T3 cells is less than 0.1 ng/ml, corresponding to a specific activity of >10,000,000 units/mg.

Usage

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