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32-6333: EGF (1-51), Human

Application : Functional Assay
Alternative Name : Urogastrone, URG, EGF.

Description

Source: Saccharomyces cerevisiae
Sterile Filtered White lyophilized (freeze-dried) powder.
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 several epidermal and epithelial tissues in vivo and in vitro and of some fibroblasts in cell culture.
Epidermal Growth Factor (1-51 a.a.) Human Recombinant produced in yeast is a single, glycosylated polypeptide chain containing 51 amino acids and having a molecular mass of 6.0kDa. The EGF is purified by proprietary chromatographic techniques.Â

Product Info

Amount :	100 µg / 0.5 mg
Purification :	Greater than 98.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content :	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4. It is recommended to reconstitute the lyophilized Epidermal Growth Factor in sterile 18M Omega -cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Storage condition :	Lyophilized EGF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Epidermal Growth Factor should be stored at 4°C between 2-7 days and for future use below -18°C.Please prevent freeze-thaw cycles.
Amino Acid :	NSDSECPLSH DGYCLHDGVC MYIEALDKYA CNCVVGYIGE RCQYRDLKWW E.

Application Note

The ED50 is determined by a cell proliferation assay using murine Balb/c 3T3 cells and is < than 0.1 ng/ml, corresponding to a specific activity of > 1.0 Ã□â□□ 107 IU/mg.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.