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California Bioscience

Product Datasheet

Product Name	Recombinant Human Epidermal Growth Factor (Leu-21)
Cata No	CB500368
Source	Escherichia Coli.
Abbreviated Name	Urogastrone, URG, EGF

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.
EGF 21-Leu Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 53 amino acids and having a molecular mass of 6205 Dalton.
The EGF 21-Leu is purified by proprietary chromatographic techniques.

Purity

Greater than 98.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Anion-exchange FPLC.
(c) Analysis by reducing and non-reducing SDS-PAGE Silver Stained gel.

Specific Activity

The ED50, calculated by the dose-dependant proliferation of MDCK cells is < 10 ng/ml.

Storage

Lyophilized Epidermal Growth Factor 21 Leu although stable at room temperature for 3 weeks, should be stored desiccated below -18℃. Upon reconstitution EGF 21-Leu should be stored at 4℃ between 2-7 days and for future use below -18℃. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).
Please prevent freeze-thaw cycles.

Formulation

The protein was lyophilized from a concentrated (1mg/ml) solution with no additives.

Solubility

It is recommended to reconstitute the lyophilized Epidermal Growth Factor 21-Leu in sterile 18MΩ-cm H_2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

*** For Non-Clinical Research Use Only ***