



Product Datasheet

Product Name	Recombinant Human Epidermal Growth Factor
Cata No	CB500234
Source	Pichia Pastoris
Synonyms	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.

Epidermal Growth Factor Human Recombinant produced in Pichia Pastoris is a single, glycosylated, polypeptide chain containing 51 amino acids and having a molecular mass of 6KDa.

The EGF is purified by proprietary chromatographic techniques.

Purity

Greater than 95.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

Specific Activity

The ED50, calculated by the dose-dependant proliferation of murine BALB/c 3T3 cells (measured by ³H-thymidine uptake) is < 0.1 ng/ml corresponding to a specific activity of 1×10^7 Units/mg.

Storage

It is recommended to reconstitute the lyophilized Epidermal Growth Factor in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Formulation

Each lyophilized mg contains contains 0.15M NaCl, 0.025M sodium bicarbonate, pH-7.5.

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