
Product Data Sheet

Product Name: EGF Human, Pichia
Cat. No.: GP20169
Batch No.: 1

Product Data

Purity	>98%	Source	Pichia Pastoris.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Urogastrone; URG; EGF.		
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Asn-Ser-Asp-Ser-Glu, which agrees with the sequence of native EGF human. N-terminal methionine has been completely removed enzymatically.		
Solubility	It is recommended to reconstitute the lyophilized Epidermal Growth Factor in sterile 18MΩ-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Each lyophilized mg contains 0.15M NaCl, 0.025M sodium bicarbonate, pH-7.5.		

Introduction

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.

Biological 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 10,000,000 Units/mg.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

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Lyophilized Epidermal Growth Factor Recombinant although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution 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.

Background

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.

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