
Product Data Sheet

Product Name: EGF Human
Cat. No.: GP20168
Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipping with dry ice.
Synonyms	Urogastrone; URG; EGF.		
Amino Acid Sequence	NSDSECPLSH DGYCLHDGVC MYIEALDKYA CNCVVG YIGE RCQYRDLKWW ELR.		
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	Lyophilized after extensive dialysis against 10 mM phosphate buffer, pH 7.0, 200 mM NaCl buffer.		

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

ED₅₀ < 0.6 ng/ml, measured in a cell proliferation assay using Balb/3T3 mouse embryonic fibroblasts in serum-free medium and CellTiter-Glo cell viability assay, corresponding to a specific activity of > 1.7 × 10⁶ U/mg.

Stability

Upon receiving, this product remains stable for 6 months at lower than -70°C. Upon reconstitution, the product should be stable for 1 week at 4°C or for 3 months at -20°C.

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

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For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Background

Epidermal Growth Factor Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 53 amino acids and having a molecular mass of 6222 Dalton. The EGF is purified by proprietary chromatographic techniques.

Epidermal Growth Factor Human Recombinant 53 amino acids 6222 Dalton EGF

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