
Product Data Sheet

Product Name: EGF (1-51), Human
 Cat. No.: GP26015
 Batch No.: 1

Product Data

Purity	>98%	Source	Saccharomyces cerevisiae
Physical Appearance	solid	Shipping Condition	atRoomtemp.
Synonyms	Urogastrone, URG, EGF.		
Amino Acid Sequence	NSDSECPLSH DGYCLHDGVC MYIEALDKYA CNCVVG YIGE RCQYRDLKWW E.		
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 from a 0.2μm filtered concentrated solution in PBS, pH 7.4.		

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 several epidermal and epithelial tissues in vivo and in vitro and of some fibroblasts in cell culture.

Biological Activity

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 × 10⁷ IU/mg.

Stability

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.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Background

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.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA