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**Product Data Sheet**

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Product Name: EGF Rat  
Cat. No.: GP20178  
Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Urogastrone; URG; EGF.		
Amino Acid Sequence	NSNTGCPPSY DGYCLNGGVC MYVESVDRYV CNCVIGYIGE RCQHRDLRWW KLR.		
Solubility	It is recommended to reconstitute the lyophilized Rat EGF in sterile water not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Rat EGF was lyophilized from a 0.2µm filtered concentrated (1.0mg/ml) 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 various epidermal and epithelial tissues in vivo and in vitro and of some fibroblasts in cell culture.

**Biological Activity**

The ED50 as calculated by the dose-dependant proliferation of murine BALB/c 3T3 cells is less than 0.1ng/ml, corresponding to a specific activity of > 10,000,000 units/mg.

**Stability**

Lyophilized Rat EGF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution Rat 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

**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

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add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

Epidermal Growth Factor Rat Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 53 amino acids and having a molecular mass of 6151 Dalton. The Rat EGF is purified by proprietary chromatographic techniques.

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