

★ Storage

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.**

★ Contents

- Product Manual
- Epidermal Growth Factor , Human Recombinant

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★ 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.

★ Description

Epidermal Growth Factor Mouse Recombinant produced in Pichia is a single, non-glycosylated, polypeptide chain containing 53 amino acids including 3 intramolecular disulfide-bonds and having a molecular mass of 6 kDa. The EGF is purified by proprietary chromatographic techniques.

★ Source

Pichia Pastoris

★ Synonyms

Urogastrone, URG, EGF.

★ Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

★ Solubility

It is recommended to reconstitute the lyophilized Epidermal Growth Factor in sterile $18\text{M}\Omega\text{-cm}$ H_2O not less than $100\mu\text{g}/\text{ml}$, which can then be further diluted to other aqueous solutions.

★ Formulation

The protein was lyophilized with no additives.

★ Purity

Greater than 98.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.

★ Usage

GenDEPOT products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

★ Biological Activity

The activity is determined by the dose-dependent proliferation of mouse BALB/c 3T3 cells and is typically less than $0.1\text{ng}/\text{ml}$.

★ Amino acid sequence

NSYPGCPSSY DGYCLNGGVC MHIESLDSYT CNCVIGYSGD RCQTRDLRWW ELR.3T3 cells and is typically less than $0.1\text{ng}/\text{ml}$.