



Epidermal Growth Factor (EGF) Human, E. coli Recombinant Protein

Product Data Sheet

Cat. No.:	A32170100	A32170500	A32171000
Size:	100 µg	500 µg	1 mg

Description:

Our bioactive Epidermal Growth Factor (EGF) Human, E. coli Recombinant Protein is a single, non-glycosylated, polypeptide chain containing 53 amino acids and has a molecular mass of 6.2 kDa. The EGF is purified by proprietary chromatographic techniques.

Summary:

EGF acts a potent mitogenic factor that plays an important role in the growth, proliferation and differentiation of numerous cell types. This protein acts by binding with high affinity to the cell surface receptor, epidermal growth factor receptor (EGFR). EGF stimulates the growth of various epidermal and epithelial tissues in vivo and in vitro and of some fibroblasts in cell culture. Magnesiotropic hormone that stimulates magnesium reabsorption in the renal distal convoluted tubule via engagement of EGFR and activation of the magnesium channel TRPM6.

Amino Acid Sequence:

NSDSECPLSH DGYCLHDGVC MYIEALDKYA CNCVVG YIGE RCQYRDLKWW ELR.

Other Names:

Urogastrone

Source:

E. coli

Purity:

Greater than 98.0% as determined by HPLC and SDS-PAGE analysis.

update.: 042022

Ilex Life Sciences LLC

1465 Sand Hill Rd, Suite 2018, Candler, NC 28715

Tel: 828-531-9949; Email: info@ilexlife.com

Web: <https://ilexlife.com/>

**Physical Appearance:**

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation:

The protein was lyophilized from a concentrated (1 mg/ml) solution containing PBS pH-7.4.

Reconstitution:

It is recommended to reconstitute the lyophilized Epidermal Growth Factor in sterile 18MΩ -cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Biological Activity:

The ED₅₀ as determined by a cell proliferation assay using murine Balb/c 3T3 cells is less than 0.1 ng/ml, corresponding to a specific activity of >1.0x10⁷ IU/mg.

Shipping:

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

Stability:

Lyophilized EGF, 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.

Usage:

This product is intended for **Laboratory Research Use Only**. This product may not be used as a pharmaceutical or veterinary drug, agricultural product, or food additive.

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