

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant EGF, Human

Catalog Number: BK0026-100µg

Source: Escherichia coli.

Quantity: 100µg

Description:

Epidermal Growth Factor (EGF) is a potent growth factor that stimulates the proliferation of various epidermal and epithelial cells. Additionally, EGF has been shown to inhibit gastric secretion, and to be involved in wound healing. EGF signals through a receptor known as c-erbB, which is a class I tyrosine kinase receptor. This receptor also binds with TGF- α and VGF (vaccinia virus growth factor). Recombinant human EGF is a 6.2 kDa globular protein containing 53 amino acid residues including 3 intramolecular disulfide-bonds. Recombinant human Epidermal Growth Factor (rhEGF) produced in E. coli is a non-glycosylated polypeptide chain of 54 amino acids. A fully biologically active molecule, rhEGF has a molecular mass of 6.2kDa analyzed by reducing SDS-PAGE and is obtained by proprietary refolding and chromatographic techniques at GenScript.

Molecular Weight:

6.2kDa, observed by reducing SDS-PAGE.

Purity:

> 95% by SDS-PAGE analysis.

Biological Activity:

ED50 <0.6ng/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 $>1.7 \times 10^6$ units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized from a 0.2 µm filtered solution in 10mM PB, pH 7.0

AA Sequence:

MNSDSECPLSHDGYCLHDGVCMYIEALDKYAC
NCVVG YIGERCQYRDLKWWELR

Endotoxin:

Less than 0.1 ng/µg (1 EU/µg) determined by LAL test

Reconstitution:

Reconstituted in ddH₂O at 100 µg/ml.

Storage:

Lyophilized recombinant human Epidermal Growth Factor (rhEGF) remains stable up to 12 months at -80 °C from date of receipt. Upon reconstitution, rhEGF should be stable up to 4 weeks at 4 °C or up to 6 months at -20 °C.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. For research use only.