

Product Information

LONG® EGF, human recombinant analog expressed in *E. coli*

Catalog Number **E4269**
Storage Temperature 2–8 °C

CAS RN 62253-63-8
Synonym: EGF

Product Description

LONG® EGF is a recombinant analog of epidermal growth factor containing the human EGF amino acid sequence with a 53 amino acid N-terminal extension peptide. It was developed as an inexpensive, high quality potent analog of EGF for use as a growth factor supplement for serum-free or low serum cell culture.

Recombinantly produced in *E. coli* using a patented expression system, the peptide is harvested from cells in inclusion bodies, which are dissolved and desalted. The active molecule is properly folded under oxidizing conditions and then purified by several liquid chromatography steps.

The product is lyophilized from 0.1 M acetic acid and is shown to stimulate the growth of Balb/3T3 fibroblasts at an ED₅₀ of ≤10 ng/ml.

Molecular mass: 12,297 Da

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions

Prepare a stock solution of 1 mg/ml by adding 100 µl of 10 mM HCl to the vial. Stock solutions of peptide can be stored for at least 3 months at –20 °C or –70 °C. Avoid repeated freeze-thaw cycles.

For concentrations of <1 mg/ml in buffer, a carrier protein should be added to minimize adsorption of the peptide to plastic or glass surfaces. Bovine serum albumin (BSA) at concentrations between 1–5 mg/ml is recommended as a carrier protein in serum-free conditions. A carrier protein is not necessary in serum-supplemented media. Up to 400 µl of buffer solution containing BSA or serum-supplemented medium may be added to the stock solution in the vial and mixed. Long-term storage of solutions of <1 mg/ml is not recommended.

Additional Handling Suggestions:

- Do not add the peptide to low protein or protein free media prior to filter sterilization
- Use a low protein binding membrane for filter sterilization
- Filter sterilize solutions at a concentration of 1 mg/ml or greater if no carrier protein is present

Storage/Stability

Store the product at 2–8 °C.

LONG is a registered trademark of Novozymes Biopharma AU.

Covered by the following patent assigned to Novozymes Biopharma AU: US patent 5,330,971.

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