

Product Information

LONG®EGF Media Grade

CATALOG NO. 85570C

Description

LONG®EGF is a recombinant analog of human epidermal growth factor (EGF) that provides a potent and cost-effective mitogen for cell culture applications. LONG®EGF is ideal for both research and large-scale culture systems utilizing serum-free or low-level serum applications. It is effective in a variety of fibroblast and endothelial cell types and also acts synergistically with LONG®R³IGF-I (Catalog No. 85580C) to produce extremely potent results in cell culture. LONG®EGF is produced in a patented *E. coli* expression system free of animal-derived components.

Precautions

This product is for research or for further manufacturing use. THIS PRODUCT IS NOT INTENDED FOR HUMAN OR THERAPEUTIC USE.

Storage

LONG®EGF in lyophilized form should be stored at 2 to 8°C and is stable for at least three years. Liquid solutions of LONG®EGF (prepared as described below) can be stored at 2 to 8°C and are stable for at least nine months.

Preparation Instructions

1. LONG®EGF is supplied lyophilized under a slight vacuum (-25 kPa) in an atmosphere of nitrogen. Remove the metal cap from the glass vial and introduce an air filled syringe through the septum to equalize the pressure.
2. Add sufficient 10 mM HCl or 100 mM acetic acid solution to the vial to achieve a peptide concentration of at least 0.1 mg/mL. Concentrations of 1 mg/mL or more are recommended.
3. Mix the solution thoroughly to ensure the peptide is completely dissolved.
4. Filtration of a LONG®EGF solution or culture medium after the addition of LONG®EGF should be performed using a low protein-binding membrane such as Polyvinylidene Difluoride (PVDF), Polyethersulfone (PES) or Cellulose Acetate (CA).

Methods for Use

After reconstitution LONG®EGF can be added directly to cell culture medium. The recommended final concentration range of LONG®EGF is 5 to 30 µg/L (or ng/mL). A titration of LONG®EGF should be performed for each different application as the optimum concentration may vary depending upon the cell type used and other components present in the medium. The effectiveness of LONG®EGF in cell culture has also been significantly increased when used in combination with other growth factors, including LONG®R³IGF-I.

Characteristics

Appearance

White powder

Molecular weight

12,298 ± 2 daltons (Mass spectroscopy)

Endotoxin

< 0.1 EU/µg

Biological Activity

ED₅₀ < 20 ng/mL (Bioassay assessing the stimulation of protein synthesis in L6 myoblasts)

Identity/Consistency

Confirmed by N-terminal sequence analysis and HPLC

Purity

> 95%

United States

SAFC Biosciences, Inc.
13804 W. 107th Street
Lenexa, Kansas 66215
USA
Phone +1 913-469-5580
Toll free-USA 1 800-255-6032
Fax +1 913-469-5584
E-mail info-na@sial.com

Europe

SAFC Biosciences Ltd.
Smeaton Road, West Portway
Andover, Hampshire SP10 3LF
UNITED KINGDOM
Phone +44 (0)1264-333311
Fax +44 (0)1264-332412
E-mail info-eu@sial.com

Asia Pacific

SAFC Biosciences Pty. Ltd.
18-20 Export Drive
Brooklyn, Victoria 3025
AUSTRALIA
Phone +61 (0)3-9362-4500
Toll free-AUS 1 800-200-404
Fax +61 (0)3-9315-1656
E-mail info-ap@sial.com

www.safcbiosciences.com

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United States

SAFC Biosciences, Inc.
13804 W. 107th Street
Lenexa, Kansas 66215
USA
Phone +1 913-469-5580
Toll free-USA 1 800-255-6032
Fax +1 913-469-5584
E-mail

Europe

SAFC Biosciences Ltd.
Smeaton Road, West Portway
Andover, Hampshire SP10 3LF
UNITED KINGDOM
Phone +44 (0)1264-333311
Fax +44 (0)1264-332412
E-mail info-eu@sial.com
info-na@sial.com

Asia Pacific

SAFC Biosciences Pty. Ltd.
18-20 Export Drive
Brooklyn, Victoria 3025
AUSTRALIA
Phone +61 (0)3-9362-4500
Toll free-AUS 1 800-200-404
Fax +61 (0)3-9315-1656
E-mail info-ap@sial.com