

Product Information

LONG®TGF-α Media Grade

CATALOG NO. 85550C

Description

LONG®TGF-α is a recombinant analog of human transforming growth factor-alpha (TGF-α) that provides a potent and cost-effective growth factor for cell culture applications. LONG®TGF-α 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 cell types, particularly those of avian species that are commonly used in virus production. LONG®TGF-α 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®TGF-α in lyophilized form should be stored at 2 to 8 C and is stable for at least two years. Liquid solutions of LONG®TGF-α (prepared as described below) can be stored at 2 to 8 C and are stable for at least nine months.

Preparation Instructions

1. LONG®TGF-α is supplied lyophilized in an atmosphere of nitrogen under a slight vacuum (-25 kPa). 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®TGF-α solution or culture medium after the addition of LONG®TGF-α should be performed using a low protein-binding membrane such as Polyvinylidene Difluoride (PVDF), Polyethersulfone (PES) or Cellulose Acetate (CA).

Methods for Use

Once LONG®TGF-α has been reconstituted, it can then be added directly to cell culture medium. The recommended final concentration range of LONG®TGF-α is 10 to 50 µg/L (or ng/mL). A titration of LONG®TGF-α 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®TGF-α 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

7113 ± 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%

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