



User Manual

Interleukin-17F (IL-17F) (Human)

Cat. No. HEILP-17012

Description:

Human Interleukin-17F (IL-17F) is synthesized as a 153 amino acid (a.a.) precursor with a 20 a.a. signal sequence and a 133 a.a. mature region. Like IL-17A, IL-17F contains one potential site for N-linked glycosylation. IL-17A and IL-17F share 50% a.a. sequence identity. IL17-F homodimer is produced by an activated subset of CD4⁺ T cells, termed Th17. IL17-F has been shown to stimulate proliferation and activation of T-cells and PBMCs. IL-17F also regulates cartilage matrix turnover and inhibits angiogenesis

Source:

Escherichia coli

Unit:

25 µg

Reconstitution:

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in 4 mM HCl to a concentration of 0.1mg/mL. Stock solutions should be apportioned into working aliquots and stored at < -20°C Further dilutions should be made in appropriate buffered solutions.

Formulation:

Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.2, with trehalose.

Storage:

This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.

Molecular Weight:

A disulfide-linked homodimer of 15.0 kDa, consisting of two 134 amino acid polypeptide chains.

Endotoxin:

Less than 1 EU/ μ g of IL-17F as determined by LAL method.

Usage:

This material is offered by Cyagen Biosciences for research, laboratory or further evaluation purposes. FOR RESEARCH USE ONLY. NOT INTENDED FOR ANY ANIMAL OR HUMAN THERAP EUTIC OR DIAGNOSTIC USE.

Biological Activity:

The ED50 determined by inducing IL-6 secretion of murine NIH/3T3 cells is less than 15 ng/mL, corresponding to a specific activity of $> 6.7 \times 10^4$ IU/mg.

Physical Appearance:

Sterile filtered white lyophilized (freeze-dried) powder.

AA Sequence:

MRKIPKVGHT FFQKPESCPP VPGGSMKLDI GIINENQRVS MSRNIESRST
SPWNYTVTWD PNRYPSEVVQ AQCRNLGCIN AQGKEDISMN SVPIQQETLV
VRRKHQGCSV SFQLEKVLVT VGCTCVTPVI HHVQ

Purity:

$> 95\%$ by SDS-PAGE and HPLC analyses.

Material Safety Data Sheets (MSDSs) are available upon request.

The Certificate of Analysis (COA), which provides detailed quality control information for each product, is also available at the Cyagen website.

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