

**BACKGROUND**

Interleukin 17F (IL-17F) is one of six members of the IL-17 family (IL-17A-F) secreted by activated CD4+ T cells and monocytes. Similar to IL-17A, IL-17F binds to the IL17 RC receptor and promotes the production of IL-6, IL-8, G-CSF and increases matrix turnover rates. IL-17F is also thought to inhibit angiogenesis and induce endothelial cells to produce IL-2, MCP-1 and TGF- $\beta$ 1.

Recombinant human IL-17F is a non-glycosylated, disulfide-linked homodimer. The dimer consists of two 134 amino acid subunits, with a total molecular weight of 30 kDa.

**Alternative Names:**

None

**Amino Acid Sequence:**

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

**TECHNICAL INFORMATION**

**Source:** *E.coli*

**Physical Appearance:**

Sterile Filtered white lyophilized (freeze-dried) powder.

**Formulation:**

Recombinant human IL-17F is lyophilized from 10 mM NaCitrate, pH 3.0.

**Stability:**

Lyophilized human IL-17-F should be stored in a desiccated state below -18°C. Upon reconstitution the product should be aliquoted and stored at below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

**Reconstitution:**

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/ml, which can be further diluted into other aqueous solutions.

**Protein Content and Purity determined by:**

- UV spectroscopy at 280 nm
- RP-HPLC calibrated against a known standard
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

**Endotoxin Level:**

Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

**Biological Activity:**

The activity is determined by a dose-dependent induction of IL-6 production in cultured mouse NIH 3T3 fibroblasts and is typically 8-40 ng/mL.

*Products are for research use only. They are not intended for human, animal, or diagnostic applications.*

