



*Recombinant Rat IL-17F*  
*(Interleukin-17F)*

*Catalog Number: 300-28*  
*Accession Number: Q5BJ95*

*Specifications and Uses:*

**Alternate Names:** None

**Description:**

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 rat IL-17F is a non-glycosylated, disulfide-linked homodimer, containing two 133 amino acids, with a total molecular weight of 30 kDa.

**Source:** *E.coli*

**Physical Appearance:** Sterile filtered white lyophilized (freeze-dried) powder.

**Formulation and Stability:**

Recombinant rat IL-17F is lyophilized with no additives.

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

**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 (typically  $\geq$  98%) determined by:**

HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

**Endotoxin Level:**

Measured by kinetic LAL analysis and is typically  $\leq$  1 EU/ $\mu$ g protein.

**Biological Activity:**

The activity is determined by the dose-dependent induction of IL-6 production in cultured mouse NIH 3T3 fibroblasts and is typically 10-20 ng/mL.

**AA Sequence:**

MARRNPKVGL SALQKAGNCP PLEDNSVRVD IRIFNQNGGI SVPRDFQNRS SSPWD YNITR DPDRFPSEIA  
EAQCRHSGCI NAQQQEDGSM NSV PIQQEIL VLRREPQGCS NSFRLEKMLI KVGCTCVTPI VHH AA

**THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!**

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