

## IL17F

### Recombinant Human Interleukin-17F, Animal Free

<b>Catalog No.</b>	CRI197A-AF CRI197B-AF CRI197C-AF	<b>Quantity:</b>	5 µg 25 µg 1.0 mg
<b>Alternate Names:</b>	IL-17F, ML-1, ML1		
<b>Description:</b>	Interleukin-17F (IL17F) is synthesized as a 154 aa precursor with a 20 aa signal sequence and a 134 aa mature region. Like IL17A, IL17F contains one potential site for N-linked glycosylation. IL17A and IL17F share 50% aa sequence identity. IL17F homodimer is produced by an activated subset of CD4+ T cells, termed Th17. IL17F has been shown to stimulate proliferation and activation of T-cells and PBMCs. IL17F also regulates cartilage matrix turnover and inhibits angiogenesis. The heterodimer formed by IL17A and IL17F is a ligand for the heterodimeric complex formed by IL17RA and IL17RC. Involved in stimulating the production of other cytokines such as IL6, IL8 and CSF2.		
<b>UniProt ID:</b>	Q96PD4		
<b>Gene ID:</b>	112744		
<b>Source:</b>	<i>E. coli</i> <b>Manufactured without Animal-derived products, in an Animal Free facility.</b>		
<b>Molecular Weight:</b>	Disulfide linked dimer 15.0/30.1 kDa (134/268 aa)		
<b>Formulation:</b>	Lyophilized from a sterile filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)		
<b>Purity:</b>	≥ 95% by reducing and non-reducing SDS-PAGE		
<b>Endotoxin Level:</b>	≤ 0.1 EUs/µg by kinetic LAL		
<b>Biological Activity:</b>	≤ 100 ng/ml, determined by production of IL-6 from murine NIH/3T3 cells.		
<b>Specific Activity:</b>	≥ 1.0 × 10 <sup>4</sup> U/mg.		
<b>Amino Acid Sequence:</b>	MRKIPKVGHT FFQKPESCPP VPGGSMKLDI GIINENQRVS MSRNIESRST SPWNYTVTWD PNRYPSEVVQ AQRNLGCIN AQGKEDISMN SVPIQQETLV VRRKHQGCSV SFQLEKVLVT VGCTCVTPVI HHVQ		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Add sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. <b>Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed.</b> Further dilutions should be made in appropriate buffered solutions.		



**Storage & Stability:**

Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, prepare working aliquots and store at -20°C to -80°C. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage.

**Avoid repeated freeze-thaw cycles.**

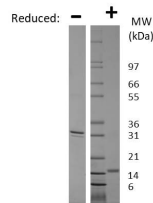
**Human IL-17F Gel**

Figure: 1 ug run under (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human IL-17F is a homodimer with a predicted MW of 30.1 kDa (each monomer is 15.0 kDa).

**NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.**



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