

## Recombinant Human IL-17 A/F

<b>CATALOG #:</b>	4176AF-10	10 µg
	4176AF-50	50 µg
	4176AF-1000	1 mg
<b>LOT #:</b>	_____	
<b>SYNONYMS:</b>	IL17A/F, IL17 A/F, IL-17A/F Interleukin-17 A/F, Interleukin-17 AF	
<b>SOURCE:</b>	<i>E. coli</i>	
<b>PURITY:</b>	> 98 % by SDS-PAGE Endotoxin level is <0.1 ng per µg of IL-17AF	
<b>FORM:</b>	Lyophilized without additives	

### RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute with sterile water to a concentration of 0.1 mg/ml; This solution can then be diluted into other aqueous buffers.

### STORAGE CONDITIONS:

The lyophilized protein very stable at -20°C. Reconstituted human IL-17 A/F should be aliquoted and stored at -20°C for future use. For long term storage it is recommended to add a carrier protein (0.1 % HSA or BSA) and store as working aliquots at -20°C. Avoid freeze/thaw cycles.

### DESCRIPTION:

Heterodimeric interleukin-17A/F is a member of the IL-17 family of six homodimeric proteins (IL-17A-17F). Recent IL-17A/IL-17F co-expression studies in HEK-293 cells revealed the presence of a biologically active heterodimer, IL-17A/F. Activated CD4+ T cells have also been shown to produce human IL-17A/F. Activity studies reveal hIL-17A to be the most potent, followed by hIL-17A/F and hIL-17F 100 fold lower than hIL-17A. IL-17A/F is thought to induce neutrophilia and chemokine expression via the IL-17RA receptor. Recombinant human IL-17A/F produced in *E.coli* is a heterodimeric non-glycosylated polypeptide comprised of one monomeric subunit each of h-IL-17A and h-IL-17F. The dimer consists of 271 amino acids, with an approximate molecular weight of 30.7 kDa.

### BIOLOGICAL ACTIVITY:

The ED<sub>50</sub> of recombinant human IL-17AF, as determined by the production of IL-6 by NIH3T3 cells, was typically found to be 3 - 15 ng/ml.

### AMINO ACID SEQUENCE:

**IL-17A:** MIVKAGITIPRNP GCPNSEDKNFPRVTVMVNLNIHNRNTNTNPKRSSDYNNRSTSPWN  
LHRNEDPERYPVSIWEAKCRHLGCINADGNVDYHMNSVPIQQEILVLRREPPHCPNSFRLEKIL  
VSVGCTCVTPIVHHVA

**IL-17F:** MRKIPKVGHTFFQKPESCPPVPGGSMKLDIGIINENQRVSMRSNIESRSTSPWNYTV

TWDPNRYPSEVVQAQCRNLGCINAQGGKEDISMNSVPIQQETLVVRRKHQGC SVSFQLEKVLV  
TVGCTCVTPIVHHVQ

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