

Recombinant Human IL-17 A/F

CATALOG #:	4176AF-10	10 µg
	4176AF-50	50 µg
	4176AF-1000	1 mg
LOT #:	_____	
SYNONYMS:	IL17A/F, IL17 A/F, IL-17A/F Interleukin-17 A/F, Interleukin-17 AF	
SOURCE:	<i>E. coli</i>	
PURITY:	> 98 % by SDS-PAGE Endotoxin level is <0.1 ng per µg of IL-17AF	
FORM:	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 ED₅₀ 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: MIVKAGITIPRNPGPCNSEDKNFPRVTVMVNLNIHNRNTNTNPKRSSDYNNRSTSPWN
LHRNEDPERYPYSVIWEAKCRHLGCINADGNVDYHMNSVPIQQEILVLRREPPHCPNSFRLEKIL
VSVGCTCVTPIVHHVA

IL-17F: MRKIPKVGHTFFQKPESCPPVPGGSMKLDIGIINENQRVMSRNIESRSTSPWNYTV
TWDPNRYPSEVVQAQCRNLGCINAQKGEDISMNSVPIQQETLVVRRKHQGC SVSFQLEKVLV
TVGCTCVTPVIHHVQ

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