

## 32-12185: Human Interleukin-17AF Heterodimer

**Gene :** IL17A  
**Gene ID :** 3605  
**Uniprot ID :** Q16552/Q96PD4  
**Alternative Name :** CTLA8, IL17, Cytotoxic T-lymphocyte-associated antigen 8

### Description

**Source:** Genetically modified E.coli.

**Predicted MW:** Dimer, /30.7 kDa (IL-17A=137; IL-17F=134; Total=271 aa)

Interleukin 17AF (IL-17AF) is a heterodimer that is composed of the interleukin 17A (IL-17A) and interleukin 17F (IL-17F) members of the IL-17 family of cytokines. IL-17AF is produced by T helper 17 cells (Th17) following interleukin 23 (IL-23) stimulation. IL-17AF signals through the IL-17RA/IL-17RC receptor complex and functions to regulate inflammatory responses. IL-17AF induces chemokine and airway neutrophilia production, similar in function to IL-17A and IL-17F homodimers. In regard to these functions, IL-17AF is less active than the IL-17A homodimer and shows greater activity than the IL-17F homodimer. Human and rat IL-17AF are active on mouse cells.

### Product Info

**Amount :** 25 µg / 100 µg  
**Purification :** Reducing and Non-Reducing SDS PAGE at  $\geq 95\%$   
**Content :** Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)  
Sterile water at 0.1 mg/mL  
**Storage condition :** Store at  $-20^{\circ}\text{C}$   
**Amino Acid :** IL-17A: MIVKAGITIP RNP GCPNSED KNFPRTVMVN LNIHNRNTNT NPKRSSDYNN RSTSPWNLHR  
NEDPERYPSV IWEAKCRHLG CINADGNVDY HMNSVPIQQE ILVLRREPPH CPNSFRLEKI LVSVGCTCVT  
PIVHHVA IL-17F: MRKIPKVGHT FFQKPESCPE VPGGSMKLDI GIINENQVRV MSRNIESRST  
SPWNYTVTWD PNRYPSEVVQ AQCRNLGCIN AQGKEDISMN SVPIQQETLV VRRKHQGC SV SFQLEKVLVT  
VGCTCVTPVI HHVQ

### Application Note

**Endotoxin:** Less than  $0.1 \text{ ng}/\mu\text{g}$  ( $1 \text{ IEU}/\mu\text{g}$ ) as determined by LAL test.

Biological Activity was determined by Production of IL-6 from mouse 3T3 cells at  $\leq 50 \text{ ng/mL}$ ;  $\geq 2.0 \times 10^4 \text{ units/mg}$ . Centrifuge vial before opening, Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at  $-80^{\circ}\text{C}$  and avoid repeat freeze thaws. Upon reconstitution, a small amount of visible precipitate can be expected. A 10% overfill has been added to the total material vial to compensate for this loss.



