

## IL17A, IL17F

### Recombinant Human IL-17AF Heterodimer

<b>Catalog No.</b>	CS307A	<b>Quantity:</b>	5 µg
	CS307B		25 µg
	CS307C		1 mg
	CS307D		100 µg

**Description:** Interleukin-17AF (IL-17AF) is a member of the IL-17 family of proteins produced by a subset of T cells, called Th17, following stimulation with IL-23. Since IL-17AF is thought to signal through the IL-17RA receptor, its biological function is similar to that of IL-17A in that it induces the production of a variety of chemokines, in addition to airway neutrophilia. In regard to these functions, IL-17AF has less activity than the IL-17A homodimer but, greater activity than the IL-17F homodimer. Human and rat IL-17AF both show activity on mouse cells. Recombinant human IL-17AF is a non-glycosylated heterodimer, containing an IL-17A subunit, 137 aa, an IL-17F subunit, 134 aa, for a total of 271 amino acids.

**Gene ID:** 3605, 112744

**UniProt ID:** Q16552, Q96PD4

**Source:** *E. coli*

**Molecular Weight:** 30.7 kDa (IL-17A = 137 aa, IL-17F = 143 aa, Total = 271 aa), dimer

**Formulation:** Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 0.1% Trifluoroacetic Acid (TFA)

**Purity:** ≥ 95 % determined by reducing and non-reducing SDS-PAGE

**Endotoxin Level:** ≤ 1 EU/µg by kinetic LAL analysis.

**Biological Activity:** ≤ 50 ng/ml, determined by a dose-dependent production of IL-6 in cultured mouse NIH 3T3 cells.

**Specific Activity:** ≥ 2.0 x 10<sup>4</sup> units/mg

**Amino Acid Sequence:**  
**IL-17A:** MIVKAGITIP RNP GCPNSED KNFPRTVMVN LNIHNRNTNT NPKRSSDYNN  
 RSTSPWNLHR NEDPERYPSV IWEAKCRHLG CINADGNVDY HMNSVPIQQE  
 ILVLRREPPH CPNSFRLEKI LVS VGCTCVT PIVHHVA  
**IL-17F:** MRKIPKVGHT FFQKPESC PP VPGGSMKLDI GIINENQRVS MSRNIESRST  
 SPWNYTVTWD PNRYPSEVVQ AQCRNLGCIN AQ

**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.



**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.**

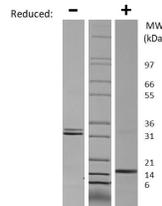
**Human IL-17AF Heterodimer Gel**

Figure: 1 ug run under (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human IL-17AF is a heterodimer with a predicted MW of 30.7 kDa (the IL-17A monomer is 15.7 kDa and the IL-17F monomer is 15.0 kDa).

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



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