

## IL17a/IL17f

### Recombinant Rat Interleukin-17 AF Heterodimer

<b>Catalog No.</b>	CS326A	<b>Quantity:</b>	5 µg
	CS326B		25 µg
	CS326C		1 mg
	CS326D		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 rat IL-17AF is a non-glycosylated, disulfide-linked heterodimer.

**Gene ID:** 301289/301291

**UniProt ID:** Q61453/Q5BJ95

**Source:** *E. coli*

**Molecular Weight:** 30.2 kDa (IL-17A:134, IL-17F:135, Total: 269 amino acids aa) dimer

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

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

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

**Biological Activity:** This product demonstrates dose-dependent induction of IL-6 production in 3T3 fibroblasts. Detected by ELISA. Typical ED<sub>50</sub> <20 ng/ml.

**Amino Acid Sequence:** **IL-17A subunit:** MAVLIPQSSV CPNAEANNFL QNVKVNLIKVL NSLSSKASSR RPSDYLNRST SPWTLNRNED PDRYPSVIWE AQCRHQRCVN AEGKLDHMMN SVLIQQEILV LKREPEKCPF TFRVEKMLVG VGCTCVSSIV RHAS  
**IL-17F subunit:** MARRNPKVGL SALQKAGNCP PLEDNSVRVD IRIFNQNGI SVPRDFQNRS SSPWD YNITR DPDRFPSEIA EAQCRHSGCI NAQG

**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.**

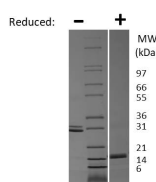
**Rat IL-17AF Heterodimer Gel**

Figure: 1 ug run under (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Rat IL-17AF is a heterodimer with a predicted MW of 30.2 kDa (the Rat IL-17A monomer is 15.1 kDa and the Rat IL-17F monomer is 15.1 kDa).

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



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