

## Interleukin-17A/F Heterodimer, Human Recombinant

CATALOG NUMBER: CIL-623-010P, 10 µg

<b>Synonyms</b>	IL17A/F, IL17 A/F, IL-17A/F, IL-17 A/F, IL17AF, IL-17 AF, Interleukin-17 A/F, Interleukin-17 AF.
<b>Introduction</b>	<p>Human IL-17A/F is a 40kDa glycoprotein which is secreted as a disulfide-linked heterodimer. IL-17A/F consists of two proteins of the IL-17 family, IL-17A and IL17F. Proteins of the 6 homodimeric IL17 family show a cysteine knot motif that contains two disulfide-bonds. Human IL17A is produced as a 155 a.a precursor that includes a 23 amino acids signal sequence and a 132 amino acid chain that includes an N-linked glycosylation site. Human IL17F is produced as a 153 amino acid precursor with a 20 amino acid signal sequence and a 133 amino acid region. Similar to IL17A, IL17F also has an N-linked glycosylation site. Both proteins (IL17A &amp; IL17F) share 50% amino acid sequence identity. Human IL17A &amp; IL17F show approximately 60% homology in their amino acid sequence to mouse IL-17A and IL-17F. Interleukin-17A/F and IL17A, IL17F homodimers are manufactured by activated CD4+ T cells, called Th17. IL-23 causes Th17 lymphocytes to manufacture IL-17A/F. IL17RA and IL17RC form a heterodimer for the binding of IL17A and IL17F. IL-17A/F binds IL-17RA. Interleukin-17A/F induces chemokine production and airway neutrophilia with intermediate potency between IL17A (most potent) and IL17F (least potent).</p>
<b>Description</b>	<p>IL-17A/F Human Recombinant produced in <i>E. coli</i> is a heterodimeric, non-glycosylated polypeptide chain containing 1 monomeric subunit of each IL-17A &amp; IL-17F. The active dimer contains 267 amino acids and having a total molecular mass of 30.3 kDa. The IL-17A/F Human is purified by proprietary chromatographic techniques.</p>
<b>Source</b>	<i>Escherichia coli</i> .
<b>Amino Acid Sequence</b>	<pre>MIVKAGITIP RNPGPCNSED KNFPRTVMVN LNIHNRNTNT NPKRSSDYNN RSTSPWNLHR NEDPERYPSV IWEAKCRHLG CINADGNVDY HMNSVPIQQE ILVLRREPPH CPNSFRLEKI LVSVGCTCVT PIVHHVA.  MRKIPKVGHT FFQKPESCPE VPGGSMKLDI GIINENQQRVS MSRNIESRST SPWNYTVTWD PNRYPSEVVQ AQCRNLGCIN AQGKEDISMN SVPIQQETLV VRRKHQGCSV SFQLEKVLVT VGCTCVTPVI HHVQ.</pre>
<b>Storage</b>	Although lyophilized Interleukin Human IL-17A/F is stable at room temperature for 3 weeks, it should be stored desiccated below -18°C.

It is recommended to reconstitute the lyophilized Interleukin Human IL-17A/F in sterile water not more than 1mg/ml, which can then be further diluted to other aqueous solutions.

Upon reconstitution Human IL-17A/F should be stored at 4°C between 2-7 days and below -18°C for future use. For long term storage, it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Purity**

> 98% pure by SDS-PAGE.