

## 32-1474: IL 17 A/F Recombinant Protein

**Alternative Name :** IL17A/F,IL17 A/F,IL-17A/F,IL-17 A/F,IL17AF,IL-17 AF,Interleukin-17 A/F,Interleukin-17 AF.

### Description

Source : Escherichia Coli. IL-17A/F Human Recombinant produced in E.Coli is a heterodimeric, non-glycosylated polypeptide chain containing 1 monomeric subunit of each IL-17A & IL-17F. The active dimer contains 271 amino acids and having a total molecular mass of 30.7 kDa. The IL-17A/F Human is purified by proprietary chromatographic techniques. 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 & IL17F) share 50% amino acid sequence identity. Human IL17A & 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).

### Product Info

<b>Amount :</b>	10 µg
<b>Purification :</b>	Greater than 98.0% as determined by SDS-PAGE.
<b>Content :</b>	Lyophilized from a concentrated (1mg/ml) solution containing no additives.
<b>Storage condition :</b>	Lyophilized Human IL-17A/F although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Human IL-17A/F should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
<b>Amino Acid :</b>	MIVKAGITIP RNP GCPNSED KNFPRTVMVN LNIHNRNTNT NPKRSSDYNN RSTSPWNLHR NEDPERYPSV IWEAKCRHLG CINADGNVDY HMNSVPIQQE ILVLRREPPH CPNSFRLEKI LSVSGCTCVT PIVHHVA. MRKIPKVGHT FFQKPESCPP VPGGSMKLDI GIINENQRVS MSRNIESRST SPWNYTVTWD PNRYPSEVVQ AQCRLGICIN AQGKEDISMN SVPIQQETLV VRRKHQGCSV SFQLEKVLVT VGCTCVTPVI HHVQ.

### Application Note

It is recommended to reconstitute the lyophilized Interleukin Human IL-17A/F in sterile water at 0.1mg/ml, which can then be further diluted to other aqueous solutions. The activity as determined by production of IL-6 from mouse 3T3 cells is 3.2ng/ml (3.1x10<sup>5</sup>units/mg).

