

IL 17A/F Rat

Description:IL-17A/F Rat Recombinant produced in E.Coli is a heterodimeric, non-glycosylated polypeptide chain containing 1 monomeric subunit of each IL-17A & IL-17F. The dimer contains 269 amino acids and having a total molecular mass of 30.7 kDa. The IL-17A/F Rat is purified by proprietary chromatographic techniques.

Synonyms:IL17A/F, IL17 A/F, IL-17A/F, IL-17 A/F, IL17AF, IL-17 AF, Interleukin-17 A/F, Interleukin-17 AF.

Source:Escherichia Coli.

Physical Appearance:Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence:IL-17A: MAVLIPQSSV CPNAEANNFL QNVKVNKVL NSLSSKASSR RPSDYLNRS TPWTLSRNEPDRYPSVIWE AQCRHQRCVN AEGKLDHMMN SVLIQQEILV LKREPEKCPF TFRVEKMLVG VGCTCVSSIV RHAS.IL-17F: MARRNPKVGL SALQKAGNCP PLEDNSVRVD IRIFNQNGI SVPRDFQNRSSPVDYNITR DPDRFPSEIA EAQCRHSGCI NAQ

Purity:Greater than 98.0% as determined by HPLC and SDS-PAGE.

Formulation:

Lyophilized from a concentrated (1mg/ml) solution containing no additives.

Stability:

Lyophilized Rat IL-17A/F although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Rat 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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

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

Introduction:

Rat IL-17A/F is a 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. Rat 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. Rat 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).



Biological Activity:

The ED50 as determined by its ability to induce of IL-6 production from NIH-3T3 cells, is 15.3-23 ng/ml.

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Catalog #:CYP5-684

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