
Product Data Sheet

Product Name: IL 17A/F Rat
 Cat. No.: GP20596
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	IL17A/F; IL17 A/F; IL-17A/F; IL-17 A/F; IL17AF; IL-17 AF; Interleukin-17 A/F; Interleukin-17 AF.		
Amino Acid Sequence	IL-17A: MAVLIPQSSV CPNAEANNFL QNVKVNLIKVL NSLSSKASSR RPSDYLNRSST SPWTLSRNEP PDRYPSVIWE AQCRHQRCVN AEGKLDHHMN SVLIQQEILV LKREPEKCPF TFRVEKMLVG VGCTCVSSIV RHAS. IL-17F: MARRNPKVGL SALQKAGNCP PLEDNSVRVD IRIFNQNQGI SVPRDFQNRS SSPWDYNITR DPDRFPSEIA EAQCRHSGCI NAQGQEDGSM NSVPIQQEIL VLRREPQGCS NSFRLEKMLI KVGCTCVTPI VHHAA.		
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.		
Formulation	Lyophilized from a concentrated (1mg/ml) solution containing no additives.		

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

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

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.

Background

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.

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