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Interleukin-17 A/F Heterodimer (IL-17A/F), mouse recombinant (rIL-17A/F)

Catalog No: 97242
Lot No: XXXXX
Source: *E. coli*
Synonyms: IL17A/F, IL17 A/F, IL-17A/F, IL-17 A/F, IL17AF, IL-17 AF, Interleukin-17 A/F, Interleukin-17 AF

Background

Human IL-17A/F is a 40 kDa 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).

Description

Interleukin-17A/F mouse recombinant produced in *E. coli* is a heterodimeric, non-glycosylated polypeptide comprised of IL17A monomeric subunit and IL17F monomeric subunit containing a total of 266 amino acids and having a total molecular mass of 29.8 kDa. IL-17 A/F is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

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

Solubility

It is recommended to reconstitute the lyophilized Interleukin-17A/F in sterile 18 MΩ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized IL17 A/F, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Mouse IL17 A/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.

Purity

Greater than 97.0% as determined by SDS-PAGE.



Amino Acid Sequence

RKNPKAGVPA LQKAGNCPPL EDNTRVVDIR IFNQNGISV PREFQNRSSS PWDYNITRDP HRFPS EIAEA QCRHSGCINA
QGQEDSTMNS VAIQQEILVL RREPQGCSNS FRLEKMLLKV GCTCVKPIVH QAAAAIIPQS SACPNT EAKD FLQNVKVNK
VFNSLGAKVS SRRPSDYLNR STSPWTLHRN EDPDRYPSVI WEAQCRHQRC VNAEGKLDHH MNSVLIQQEI LVLKREPESC
PFTFRVEKML VGVGCTCVAS IVRQAA

Usage

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