

IL-17A/F, human recombinant protein

IL17A/F, IL17 A/F, IL-17A/F Interleukin-17 A/F, Interleukin-17 AF

Catalog # PBV10153r

Specification

IL-17A/F, human recombinant protein - Product info

Primary Accession [Q96PD4](#)
Calculated MW 30.7 kDa KDa

IL-17A/F, human recombinant protein - Additional Info

Gene ID **IL17A-3605 IL17F-112744**
Gene Symbol **IL17A;IL17F**

Other Names

IL17A/F, IL17 A/F, IL-17A/F Interleukin-17 A/F, Interleukin-17 AF, Cytotoxic T-lymphocyte-associated antigen 8

Gene Source **Human**
Source **E. coli**
Assay&Purity **SDS-PAGE; ≥98%**
Assay2&Purity2 **HPLC;**
Recombinant **Yes**
Sequence **MIVKAGITIPRNPGPCNSEDKNFPRTVMVNLNI
HNRNTNTNPKRSSDYNRSTSPWNLHRNEDP
ERYPSVIWEAKCRHLGCINADGNVDYHMNSVP
IQQEILVLRREPPHCPNSFRLEKILVSVGCTCVT
PIVHHVAMRKIPKVGHTFFQKPESCPPVPGGS
MKLDIGIINENQRVSMRNIERSRSTSPWNYTVT
WDPNRYPSEVVQAQCRNLGCINAQGKEDISMN
SVPIQQETLVVRRKHQGCSSVFSFQLEKVLVTVGC
TCVTPVIHHVQ**

Target/Specificity

IL-17A/F

Application Notes

Centrifuge the vial prior to opening. Reconstitute with sterile H₂O to a concentration not more than 1 mg/ml; This solution can then be diluted into other aqueous buffers.

Format

Lyophilized protein

Storage

-20°C; Lyophilized with no additives

IL-17A/F, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

IL-17A/F, human recombinant protein - Images

IL-17A/F, human recombinant protein - 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, IL-17A and IL17F. 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 and 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. Interleukin-17A/F induces chemokine production and airway neutrophilia with intermediate potency between IL17A (most potent) and IL17F (least potent). 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.

IL-17A/F, human recombinant protein - References

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Mungall A.J.,et al.Nature 425:805-811(2003).
Kawaguchi M.,et al.J. Immunol. 167:4430-4435(2001).
Zhang Z.,et al.Protein Sci. 13:2819-2824(2004).
Hymowitz S.G.,et al.EMBO J. 20:5332-5341(2001).