



Product Datasheet

Product Name	Interleukin 17F Human Recombinant
Cata No	CB501321
Source	<i>Escherichia Coli.</i>
Synonyms	Cytokine ML-1, IL-17F, Interleukin-17F precursor, IL17F, ML1, ML-1.

Description

IL-17F having an accession number of Q96PD4 is a cytokine that shares sequence similarity with IL17. IL-17F is expressed by activated T cells, and has been shown to stimulate the production of several other cytokines, including IL6, IL8, and CSF2/GM-CSF. IL-17F inhibits the angiogenesis of endothelial cells and induce endothelial cells to produce IL2, TGFB1/TGFB, and monocyte chemoattractant protein-1. IL-17F induces stromal cells to produce proinflammatory and hematopoietic cytokines. Intestinal IL17F gene expression is increased in active CD.

IL-17A & IL-17F alleles influence the susceptibility to and pathophysiological features of ulcerative colitis independently. IL-17F and MIF gene polymorphisms are significantly associated with the development of functional dyspepsia.

The initiation of IL-17F/IL-17R signaling pathway requires the receptor ubiquitination by TRAF6. IL-17F induces expression of IFN-gamma-inducible protein 10 (IP-10) by activating Raf1-mitogen-activated protein kinase 1/2-extracellular-regulated kinase 1/2-p90 ribosomal S6 kinase-cyclic AMP response element-binding protein signaling pathway.

Interleukin-17F Human Recombinant produced in E.Coli is a homodimeric, cysteine linked, non-glycosylated polypeptide chain containing 2 x 134 amino acids and having a total molecular mass of 30.1 kDa.

The IL-17F Human is purified by proprietary

chromatographic techniques.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Purity

Greater than 97.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

Formulation

Lyophilized from a concentrated (1mg/ml) solution containing 10mM sodium citrate buffer pH-3.

Reconstitution

It is recommended to reconstitute the lyophilized Interleukin Human IL17F in sterile water not more than 1mg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized Interleukin Human IL17F although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Human IL-17F 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.

Sequence

MRKIPKVGHT FFQKPESCPP VPGGSMKLDI
GIINENQRVS MSRNIESRST SPWNYTVTWD
PNRYPSEVVQ AQCRNLGCIN AQGKEDISMN

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SVPIQQETLV VRRKHQGCSV SFQLEKVLVT
VGCTCVTPVI HHVQ

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