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## Product Data Sheet

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Product Name: IL17F Human, sf9  
 Cat. No.: GP20590  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Cytokine ML-1; IL-17F; Interleukin-17F precursor; IL17F; ML1; ML-1.		
Amino Acid Sequence	ADPRKIPKVG HTFFQKPESC PPVPGGSMKL DIGIINENQR VSMSRNIESR STSPWNYTVT WDPNRYPSEV VQAQCRNLGC INAQ GKEDIS MNSVPIQQET LVVRRKHQGC SVSFQLEKVL VTVGCTCVTP VIHHVQH HHH HH.		
Formulation	IL17F protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4), 20% glycerol and 1mM DTT.		

### Introduction

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.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

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

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

IL17F produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 142 amino acids (31-163 a.a.) and having a molecular mass of 16kDa (Molecular size on SDS-PAGE will appear at approximately 18-28 kDa). IL17F is expressed with a 9 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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