
Product Data Sheet

Product Name: IL17F Rat
 Cat. No.: GP20599
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Cytokine ML-1; IL-17F; Interleukin-17F precursor; IL17F; ML1; ML-1.		
Amino Acid Sequence	MARRNPKVGL SALQKAGNCP PLEDNSVRVD IRIFNQNQGI SVPRDFQNRS SSPWDYNITR DPDRFPSEIA EAQCRHSGCI NAQGQEDGSM NSVPIQQEIL VLRREPQGCS NSFRLEKMLI KVGCTCVTPI VHHAA.		
Solubility	It is recommended to reconstitute the lyophilized Rat IL17F in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	IL17F Rat was lyophilized from a concentrated (1mg/ml) solution containing no additives.		

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.

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

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Stability

Lyophilized Rat IL17F although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution Rat IL17F 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

IL17F Rat Recombinant produced in E.Coli is a homodimeric, non-glycosylated polypeptide chain containing a total of 270 amino acids and having a molecular mass of 30 kDa. The Rat IL-17F is purified by proprietary chromatographic techniques.

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