Recombinant Rat Interleukin 17F

Cat. No. Il17f-204R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Interleukin-17F produced in*E.Coli*is a homodimeric, non-glycosylated polypeptide chain containing 145 amino acids and having a molecular mass of 35.5 kDa. The IL-25 Rat is purified by proprietary chromatographic techniques.
Species	Rat
Source	E.coli
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 and 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.

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Amino Acid Sequence	MARRNPKVGL SALQKAGNCP PLEDNSVRVD IRIFNQNQGI SVPRDFQNRS SSPWDYNITR DPDRFPSEIA EAQCRHSGCI NAQGQEDGSM NSVPIQQEIL VLRREPQGCS NSFRLEKMLI KVGCTCVTPI VHHAA.
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	IL17F Rat was lyophilized from a concentrated (1mg/ml) solution containing no additives.
Solubility	It is recommended to reconstitute the lyophilized Interleukin Rat IL17F in sterile 18MΩ-cm H_2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Stability	Lyophilized Interleukin Rat 17F although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution 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.

GENE INFORMATION

Gene Name	Il17f interleukin 17F [Rattus norvegicus]
Synonyms	Il17f; interleukin 17F; Il17f_predicted; LOC301291; MGC114402; interleukin 17F (predicted)
Gene ID	301291

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mRNA Refseq	NM_001015011
Protein Refseq	NP_001015011
UniProt ID	Q5BJ95
Chromosome Location	9q13
Function	cytokine activity;cytokine binding; protein homodimerization activity

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