Active Recombinant Rat Interleukin-17F

Cat. No. Il17f-498R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat IL-17F produced in E.coli is a homodimeric, non-glycosylated polypeptide chain containing a total of 133 amino acids and having a molecular mass of 14.9 kDa.
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.
Form	Lyophilized with no additives.
Purity	Purity Greater than 98% as determined by: Analysis by RP-HPLC. Reducing and non-reducing SDS-PAGE.
Bio-activity	IL-17F is fully bioactive when compared to a known standard. The ED50 as determined by the dose-dependant induction of IL-6 in NHDF is 1.94 ng/ml.
Physical Appearance	Sterile Filtered white lyophilized (freeze-dried) powder.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Solubility	It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/ml, which can be further diluted into other aqueous solutions.
Purity Greater than 97% as determined by	Analysis by RP-HPLC. Reducing and non-reducing SDS-PAGE.
Protein Content determined by	UV spectroscopy at 280 nm. Analysis by RP-HPLC calibrated against a known standard. Quantitation on SDS-PAGE against a known standard
Endotoxin Level	Endotoxin level as measured by LAL is <0.01ng/ug or <0.1EU/ug.
Amino acid sequence	MARRNPKVGL SALQKAGNCP PLEDNSVRVD IRIFNQNQGI SVPRDFQNRS SSPWD YNITR DPDRFPSEIA EAQCRHSGCI NAQGQEDGSM NSV PIQQEIL VLRREPQGCS NSFRLEKMLI KVGCTCVTPI VHH AA
Storage	Lyophilized product is very stable at -20 degrees. Reconstituted material should be aliquoted and frozen at -20. It is recommended to add a carrier protein (0.1% HSA or BSA) for long term storage.

GENE INFORMATION

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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA