

Active Recombinant Rat Interleukin-17AF Heterodimer

Cat. No. II17a-492R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant rat IL-17A/F produced in E.coli is a heterodimeric non-glycosylated polypeptide comprised of one monomeric subunit each of r-IL-17A and r-IL-17F. The dimer consists of 271 amino acids, with an approximate molecular weight of 30.7 kDa.
Species	Rat
Source	E.coli
Description	Heterodimeric interleukin-17A/F is a member of the IL-17 family of six homodimeric proteins (IL-17A-17F). Recent IL-17A/IL-17F co-expression studies in HEK-293 cells revealed the presence of a biologically active heterodimer, IL-17A/F. Activated CD4+ T cells have also been shown to produce human IL-17A/F. Activity studies reveal hIL-17A to be the most potent, followed by hIL-17A/F and hIL-17F 100 fold lower than hIL-17A. IL-17A/F is thought to induce neutrophilia and chemokine expression via the IL-17RA receptor.
Form	Lyophilized with no additives.
Purity	Purity Greater than 98% as determined by: Reducing and non-reducing SDS-PAGE.
Bio-activity	In process.
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	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	MAVLIPQSSV CPNAEANNFL QNVKVNLIKVL NSLSSKASSR RPSDYLNKST SPWTLNRNED PDRYPSVIWE AQCRHQRCVN AEGKLDHMMN SVLIQQEILV LKREPEKCPF TFRVEKMLVG VGCTCVSSIV RHAS MARRNPKVGL SALQKAGNCP PLEDNSVRVD IRIFNQNGGI SVPRDFQNRS SSPWD YNITR DPDRFPSEIA EAQCRHSGCI NAQQQEDGSM 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	Il17a interleukin 17A [<i>Rattus norvegicus</i>]
Official Symbol	Il17a
Synonyms	Il17a; interleukin 17A; Il17; Interleukin 17 (cytotoxic T-lymphocyte-associated serine esterase 8)

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Gene ID	301289
mRNA Refseq	NM_001106897
Protein Refseq	NP_001100367
Chromosome Location	Q61453
Function	cytokine activity

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