

Active Recombinant Human Interleukin 17A

Cat. No. IL17A-487H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL-17A produced in E.Coli is a homodimeric, non-glycosylated polypeptide chain containing a total of 264 amino acids and having a molecular mass of 30,250 Dalton.
Species	Human
Source	E.coli
Description	Interleukin-17A is a protein that in humans is encoded by the IL17A gene. The protein encoded by this gene is a proinflammatory cytokine produced by activated T cells.
Form	Lyophilized with no additives.
Purity	Purity Greater than 98% as determined by: Reducing and non-reducing SDS-PAGE. H-IL-17-A consists of monomer and dimer at an approximate ratio of 50:50.
Bio-activity	The ED50 as determined by the dose-dependant induction of IL-6 in primary human foreskin fibroblasts was found to be 2 ng/mL, corresponding to a specific activity of 5 x 10 ⁵ Units/mg.
Physical Appearance	Sterile Filtered white lyophilized (freeze-dried) powder.
Solubility	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a

 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

	concentration of 0.1 mg"s/ml, which can be further diluted into other aqueous solutions.
Purity Greater than 98% as determined by	Reducing and non-reducing SDS-PAGE. H-IL-17-A consists of monomer and dimer at an approximate ratio of 50:50.
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	MIVKAGITIP RNP GCPNSED KNFPRTVMVN LNIHNRNTNT NPKRSSDYNN RSTSPWNLHR NEDPERYPSV IWEAKCRHLG CINADGNVDY HMNSVPIQQE ILVLRREPPH CPNSFRLEKI LVSVGCTCVT PIVHHVA
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.
Pathways	Cytokine-cytokine receptor interaction

GENE INFORMATION

Gene Name	17A interleukin 17A [Homo sapiens]
Official Symbol	IL17A
Synonyms	IL17A; interleukin 17A; IL17; CTLA8; IL-17; IL-17A; toxic T-lymphocyte-associated antigen 8; ototoxic T-lymphocyte-associated protein 8; cytotoxic T-lymphocyte-associated serine esterase 8; interleukin 17 (cytotoxic T-lymphocyte-associated

 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

	serine esterase 8)
Gene ID	3605
mRNA Refseq	NM_002190
Protein Refseq	NP_002181
MIM	603149
UniProt ID	Q16552
Chromosome Location	6p12
Function	cytokine 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