

Active Recombinant Mouse Interleukin 17F

Cat. No. IL17f-497M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse 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	Mouse
Source	E.coli
Description	Interleukin-17 (IL-17 or IL-17A) is the founding member of a group of cytokines called the IL-17 family. Interleukin 17 is a cytokine that acts as a potent mediator in delayed γ C type reactions by increasing chemokine production in various tissues to recruit monocytes and neutrophils to the site of inflammation, similar to Interferon gamma. IL- 17 is produced by T helper cells and is induced by IL γ C 23 which results in destructive tissue damage in delayed γ C type reactions.
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 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.

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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 98% 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 is <0.01ng/ug or <0.1EU/ug.
Amino acid sequence	MRKNPKAGVP ALQKAGNCPP LEDNTVRVDI RIFNQNQGIS VPREFQNRSS SPWDYNITRD PHRFPSEIAEAQCRHSGCIN AQQQEDSTMN SVAIQQEILV LRREPQGCSN SFRLEKMLLK VGCTCVKPIV HQAA
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 [Mus musculus]
Official Symbol	Il17f
Synonyms	Il17f; interleukin 17F; C87042; IL-17F
Gene ID	257630
mRNA Refseq	NM_145856

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Protein Refseq	NP_665855
UniProt ID	Q7TNI7
Chromosome Location	1 A4
Function	cytokine activity
PDB rendering based on 1jpy.	