Recombinant Mouse Interleukin 17A

Cat. No. Il17a-71M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Murine Interleukin-17 produced in*E.Coli*is a homodimeric, non-glycosylated polypeptide chain containing a total of 266 amino acids and having a molecular mass of 29,956 Dalton. The IL-17 is purified by proprietary chromatographic techniques.
Species	Mouse
Source	E.coli
Description	IL17 is a proinflammatory cytokine produced by activated T cells. IL-17 regulates the activities of NF-kappaB and mitogen-activated protein kinases. Interleukin-17 can stimulate the expression of IL6 and cyclooxygenase-2 (PTGS2/COX-2), as well as enhance the production of nitric oxide (NO). High levels of IL-17 are associated with several chronic inflammatory diseases including rheumatoid arthritis, psoriasis and multiple sclerosis.
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be, Ala-Ala-Ile-Ile-Pro.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Formulation	Lyophilized from a concentrated (1mg/ml) solution containing no additives.

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Solubility	It is recommended to reconstitute the lyophilized Interleukin 17 in sterile 18MΩ-cm H_2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED_{50}as determined by the dose-dependant secretion of IL-6 by NIH 3T3 cells was found to be 1.0-10.0 ng/mL.
Protein Content	Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 0.942 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a standard solution of IL-17 as a Reference Standard.
Storage	Lyophilized Interleukin-17 although stable at room temperature for 3 weeks, should be stored desiccated below -18℃. Upon reconstitution IL17 should be stored at 4℃ between 2-7 days and for future use below -18℃. 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	Il17a interleukin 17A [Mus musculus]
Synonyms	Il17a; interleukin 17A; Il17; Ctla8; Ctla-8
Gene ID	16171
mRNA Refseq	NM_010552
Protein Refseq	NP_034682

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UniProt ID	Q62386
Chromosome Location	1 A
Pathway	Cytokine-cytokine receptor interaction
Function	cytokine activity

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