

## IL 17 Mouse

**Description:** Interleukin-17 Murine Recombinant produced in E.Coli is a homodimeric, non-glycosylated polypeptide chain containing a total of 268 (2x134 a.a.) amino acids and having a molecular mass of 30 kDa. The IL-17 is purified by proprietary chromatographic techniques.

Catalog #: CYP5-385

**Synonyms:** CTLA-8, IL-17, IL-17A, Cytotoxic T-lymphocyte-associated antigen 8.

For research use only.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Amino Acid Sequence:** MAAIIPQSSA CPNTEAKDFL QNVKVNKLVF NSLGAKVSSR  
RPSDYLNLRST SPWTLHRNED PDRYPSVIWE AQCRHQRCVN AEGKLDHHMN SVLIQQEILV  
LKREPESCPF TFRVEKMLVG VGCTCVASIV RQAA.

**Purity:** Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

**Formulation:**

Lyophilized from a concentrated (1mg/ml) solution containing no additives.

**Stability:**

Lyophilized Interleukin-17 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL17 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Solubility:**

It is recommended to reconstitute the lyophilized Interleukin 17 in sterile 18M-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

**Introduction:**

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.

**Biological Activity:**

The ED50 as determined by the dose-dependant induction of IL-6 production in cultured mouse NIH 3T3 fibroblasts was found to be 0.4 ng/ml, corresponding to a specific activity of 2,500,000 units/mg.

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