

Recombinant Murine Interleukin-17A (rm IL-17A)

Synonyms: Cytotoxic T-lymphocyte-associated antigen 8 (CTLA-8).

Introduction: IL-17 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 IL-6 and Cyclooxygenase-2 (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.

Description: Recombinant murine IL-17A produced in *E. Coli* is a homodimeric, non-glycosylated polypeptide chain containing a total of 266 amino acids and having a molecular mass of 29956 Dalton. The rm IL-17A is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*.

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: lyophilized from a 0.2 µm filtered solution in PBS, pH 7.2
The sample size of 1µg contains Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized rm IL-17A in sterile H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized rm IL-17A although stable at room temperature for 3 weeks, should be stored desiccated below -18° C . Upon reconstitution rm IL-17A 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.

Purity: 95.0% as determined by SDS-PAGE.

Endotoxicity: The endotoxin level is less than 1 EU/mg (0.1 ng/ml) determined by LAL method

Biological Activity: rm IL-17A is fully biologically active measured by its ability to induce IL-6 production by NIH 3T3 cells

This material is offered for **research only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	5 µg	Cat.N°	12340170
<i>medium</i>	25 µg	Cat.N°	12340174
<i>large</i>	100 µg	Cat.N°	12340176
<i>x-large</i>	500 µg	Cat.N°	12340177

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