

## Recombinant Equine Interleukin-17A (req IL-17A)

**Synonyms:** IL-17A, 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. IL-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 equine IL-17A produced in *E.Coli* is a homodimeric, non-glycosylated polypeptide chain containing a total of 262 amino acids and having a molecular mass of 29866 Dalton. The req IL-17 is purified by proprietary chromatographic techniques.

**Source:** *Escherichia Coli*.

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

**Formulation:** lyophilized from a 0.22 µm filtered solution in 25 mM sodium phosphate + 0.2 M NaCl, pH 7.4

**Solubility:** It is recommended to reconstitute the lyophilized req IL-17 in sterile H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

**Stability:** Lyophilized req IL-17 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution req IL-17 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% HSS or BSA). Please prevent freeze-thaw cycles.

**Purity:** 95.0% as determined by SDS-PAGE silver stained gel.

**Endotoxin:** The endotoxin level is less than 1ng /µg (IEU/µg) determined by LAL method

**Amino Acid Sequence:**

MGIVIPQNPECPNTGDKNFPQNVKINLNLNRKTNSRRASDYHNRSTSPWNLHRNEDPERYPSVIWEAKCRHL  
GCVNAEGKVDFHMNSVPIQQEILVLRRESQNCPSHFQLEKMLVAVGCTCVTPIVRHMG

**Biological Activity:** biologically active

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°	18340170
<i>medium</i>	25 µg	Cat.N°	18340174
<i>large</i>	100 µg	Cat.N°	18340176

**ImmunoTools** Excellent Quality - Advantageously priced

Gladiolenweg 2; 26169 Friesoythe; Germany  
phone:+49-(0)4491-400997, fax:+49-(0)4491-400998, [info@immunotools.com](mailto:info@immunotools.com)  
[www.immunotools.com](http://www.immunotools.com)