

IL17a

Recombinant Mouse Interleukin-17A Animal Free

Catalog No.	CS318A-AF	Quantity:	5 µg
	CS318B-AF		25 µg
	CS318C-AF		1 mg
	CS318D-AF		100 µg

Alternate Names: IL-17, CTLA-8

Description: Interleukin-17A (IL-17A), also known as CTLA-8, is a pro-inflammatory cytokine member of a six-species family of proteins (IL-17A-17F). IL-17A is secreted mainly by activated CD4+ and CD8+ T lymphocytes and acts through its receptor, IL-17R, to induce the expression of many mediators of inflammation, most importantly, those that are involved in the proliferation, maturation and chemotaxis of neutrophils. Elevated levels of IL-17A have been associated with several conditions, including rheumatoid arthritis, airway inflammation, allograft rejection, inflammatory bowel disease, psoriasis, cancer and multiple sclerosis. Human, mouse and rat IL-17A show activity on mouse cells. Recombinant mouse IL-17A is a non-glycosylated, disulfide-linked homodimer, containing two 134 amino acid chains.

Gene ID: 16171

UniProt ID: Q62386

Source: *E. coli*

Manufactured without Animal-derived products, in an Animal Free facility.

Molecular Weight: 15.1/30.2 kDa (134/268 aa) dimer

Formulation: Lyophilized from a sterile filtered aqueous solution containing 0.1% trifluoroacetic acid (TFA)

Purity: ≥ 95%, determined by reducing and non-reducing SDS-PAGE.

Endotoxin Level: ≤ 1 EU/µg, by kinetic LAL analysis.

Biological Activity: ED₅₀ ≤ 5 ng/ml, determined by the dose-dependent induction of IL-6 production in cultured mouse NIH 3T3 fibroblasts.

Specific Activity: ≥ 2.0 x 10⁵ units/mg

Amino Acid Sequence: MAAIIPQSSA CPNTEAKDFL QNVKVNLIKVF NSLGAKVSSR RPSDYLNKST
SPWTLHRNED PDRYPSVIWE AQCRHQRCVN AEGKLDHHMN SVLIQQEILV
LKREPEPCPF TFRVEKMLVG VGCTCVASIV RQAA

Reconstitution: **Centrifuge vial before opening.** When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. 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, containing a carrier protein such as 0.1% BSA.



Storage & Stability:

Lyophilized product is stable at room temperature for shipping purposes. Upon receipt, store at -20°C to -80°C for up to 1 year.

Upon reconstitution, the preparation is stable for up to one month at 2-8°C. For long term storage, prepare working aliquots and store at -20 to -80°C. For maximal stability, dilute to working aliquots in a 0.1% BSA solution.

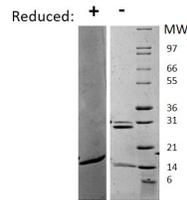
Avoid repeated freeze-thaw cycles**Mouse IL-17A**

Figure: 1 ug in each lane (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Mouse IL-17A is a homodimer with a predicted total MW of 30.2kDa.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

