

DATASHEET
Version 20181206**IL-17A, Mouse****Cat. No.:** Z03031-1**Size:** 1.0 mg**Synonyms:** IL-17A, CTLA-8**Description:**

Interleukin-17A, (also known as CTLA-8) is a T cell-expressed pleiotropic cytokine that exhibits a high degree of homology to a protein encoded by the ORF13 gene of herpesvirus Saimiri. cDNA clones encoding IL-17 have been isolated from activated rat, mouse and human T cells. IL-17 represents a family of structurally-related cytokines that share a highly conserved C-terminal region but differ from one another in their N-terminal regions and in their distinct biological roles. The six known members of this family, IL-17A through IL-17F, are secreted as homodimers.

Recombinant murine IL-17A is a 15-20kDa glycosylated cytokine of 133 amino acid polypeptide chain that plays an important role in antimicrobial and chronic inflammation. IL-17 exhibits multiple biological activities on a variety of cells including the induction of IL-6 and IL-8 production in fibroblasts, the enhancement of surface expression of ICAM-1 in fibroblasts, activation of NF- κ B and costimulation of T cell proliferation.

Amino Acid Sequence:

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00001 AAIIPQSSAC PNTEAKDFLQ NVKVNLIKVFN SLGAKVSSRR
00041 PSDYLNRSST PWTLHRNEDP DRYPSVIWEA QCRHQRCVNA
00081 EGKLDHMHNS VLIQEIILVL KREPESCPFT FRVEKMLVGV
00121 GCTCVASIVR QAA
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Source: CHO**Species:** Mouse**Biological Activity:** Measured by its ability to induce IL-1a, IL-4 and IL-6 production by primary mouse splenocytes.**Molecular Weight:** 15-22 kDa, observed by reducing SDS-PAGE.**Formulation:** Lyophilized after extensive dialysis against PBS.**Reconstitution:** Reconstituted in ddH₂O or PBS at 100 μ g/ml.**Purity:** > 95% as analyzed by SDS-PAGE.**Endotoxin Level:** < 0.2 EU/ μ g, determined by LAL method.**Storage:** Lyophilized recombinant Murine Interleukin-17A (IL-17A) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, recombinant murine IL-17A should be stable up to 1 week at 4°C or up to 2 months at -20°C.