

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant IL-17A, Mouse

Catalog Number: BK0235-1mg

Source: CHO

Quantity: 1mg

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.

Molecular Weight:

15-22 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% as analyzed by SDS-PAGE.

Biological Activity:

Measured by its ability to induce IL-1a, IL-4 and IL-6 production by primary mouse splenocytes.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

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AAIIPQSSACPNTTEAKD-  
FLQNVKVNLIKVFNSLGAKVSSRRPSDYLNRRSTSP  
WTLHRNEDPDRYPSVIWEAQCRHQRCV-  
NAEGKLDHMHMNSVLIQQEILVLKREP-  
ESCPFTFRVEKMLVGVGCTCVASIVRQAA
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Endotoxin:

< 0.2 EU/ μ g, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O or PBS at 100 μ g/ml.

Storage:

Lyophilized recombinant Murine Interleukin-17A (IL-17A) remains stable up to 6 months at -80 °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.

Usage:

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