



Recombinant Mouse IL-17A

20200702BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	M10-239S
Size:	5 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	16171
Synonyms:	IL-17, CTLA-8

The originally described IL-17 protein, now known as IL-17A, is a disulfide linked homodimer, secreted by activated T-cells that act on stromal cells to induce production of proinflammatory and hematopoietic bioactive molecules. Today, 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. IL-17A exhibits cross-species bioactivity between human and murine cells. Recombinant murine IL-17A is a 30.0 kDa disulfide-linked homodimer of two 133 amino acid polypeptide chains.

Sequence

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AAIIPQSSAC PNTEAKDFLQ NVKVNLIKVFN SLGAKVSSRR  
PSDYLNRRSTS PWTLHRNEDP DRYPSVIWEA QCRHQRCVNA  
EGKLDHHMNS VLIQQEILVL KREPESCFPT FRVEKMLVGV  
GCTCVASIVR QAA
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Database References

Protein RefSeq:	NP_034682.1
Uniprot ID:	Q62386
mRNA RefSeq:	NM_010552.3

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analyses
Structural Information	disulphide-linked homodimer
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	133
MW:	30 kDa

Stability: The lyophilized protein is stable at room temperature for 1 month and at 4°C for 6 months. Reconstituted working aliquots are stable for 1 week at 2°C to 8°C and for 3 months at -20°C to -80°C.

Reconstitution: Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. *Do not vortex.* This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.



AVOID REPEATED FREEZE AND THAW CYCLES!

Biological Activity: Measured by its ability to induce IL-6 production by NIH 3T3 cells.