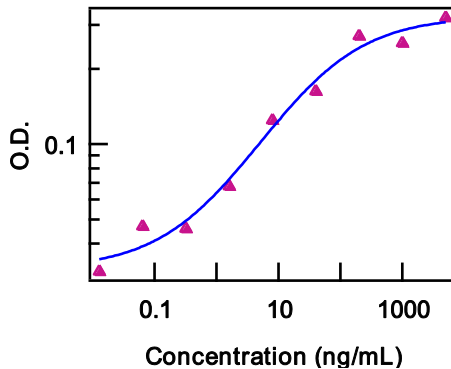


Rat IL-17A Recombinant Protein

Catalog Number: 14-8170

Also known as: Interleukin-17A, CTLA-8

RUO: For Research Use Only. Not for use in diagnostic procedures.



Induction of Mouse IL-6 in NIH/3T3 cells by Rat IL-17A Recombinant Protein.

Product Information

REF **Contents:** Rat IL-17A Recombinant Protein
Catalog Number: 14-8170
Concentration: 0.1 mg/mL
Handling Conditions: For best recovery, quick-spin vial prior to opening. Use in a sterile environment
Source: E. coli expressed amino acids Ala18-Ser150, accession number NM_001106897
Molecular Mass: The protein is methionylated at the N-terminal and has a predicted molecular mass of 15.1 kDa. The DTT-reduced protein migrates as a 15 kDa polypeptide. The nonreduced cysteine-linked homodimer migrates as a 31 kDa protein on non-reducing SDS-PAGE.
Purity: > 96% as determined by SDS-PAGE
Endotoxin: Less than 0.01 ng/ug cytokine as determined by the LAL assay.
Bioactivity: The ED50 of this protein, as determined by mouse IL-6 induction NIH/3T3 cells, is 10-50 ng/mL. This corresponds to a specific activity of 1x10e5 - 2x10e4 Units/mg.



LOT



Formulation: Sterile liquid; 0.1 M glycine with 1% BSA, pH 3.0. 0.22 um filtered.

Temperature Limitation: Store at less than or equal to -70°C.

Batch Code: Refer to vial

Use By: Refer to vial

Description

Interleukin-17A (IL-17A, also known as CTLA-8 and IL-17) is a member of the IL-17 family of proinflammatory cytokines. It is most similar to IL-17F, another member of the family with which it shares 50% sequence homology. Both cytokines exist as homodimers and individual subunits from each protein can also associate into a heterodimer known as IL-17AF.

Expression of IL-17A is most often associated with the Th17 subset of CD4⁺ T cells, but has also been observed in CD8⁺ T cells, $\gamma\delta$ T cells, and neutrophils. IL-17A is important as a neutrophil activator, and it induces inflammatory cytokine production in epithelial cells, endothelial cells, and fibroblasts through NF- κ B signaling. IL-17A and Th17 cells have been implicated in various autoimmune disorders.

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Rat IL-17A Recombinant Protein

Catalog Number: 14-8170

Also known as: Interleukin-17A, CTLA-8

RUO: For Research Use Only. Not for use in diagnostic procedures.

Applications Reported

Recombinant rat IL-17A is biologically active.

Applications Tested

The ED₅₀ of this protein, as determined by mouse IL-6 induction NIH/3T3 cells, is 10-50 ng/ml. This corresponds to a specific activity of 1x10⁵ - 2x10⁴ Units/mg.

References

Dong C. Regulation and pro-inflammatory function of interleukin-17 family cytokines. *Immunol Rev.* 2008 Dec; 226: 80-6.

Gaffen SL. An overview of IL-17 function and signaling. *Cytokine.* 2008 Sep; 43(3): 402-7.

Roark CL, Simonian PL, Fontenot AP, Born WK, O'Brien RL. gammadelta T cells: an important source of IL-17. *Curr Opin Immuno.* 2008 Jun; 20(3): 353-7

Related Products

14-7175 Anti-Mouse/Rat IL-17A Purified (eBio17CK15A5)

14-7178 Anti-Human IL-17A Purified (eBio64CAP17)

14-8171 Mouse IL-17A Recombinant Protein

34-8171 Mouse IL-17A Recombinant Protein Carrier-Free

88-7170 Rat IL-17A (homodimer) ELISA Ready-SET-Go!®

88-7370 Mouse/Rat IL-17A ELISPOT Ready-SET-Go!®

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