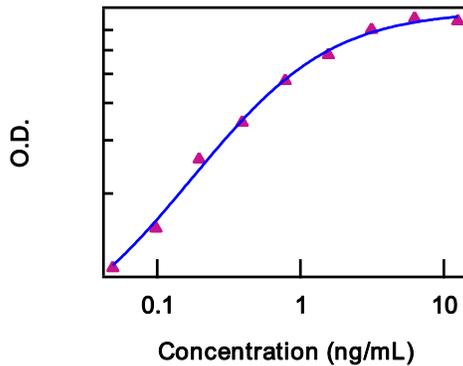


Human IL-17A Recombinant Protein

Catalog Number: 14-8180

Also known as: Interleukin-17A, IL17A, CTLA-8

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



Induction of human IL-6 in NHDF cells by Human IL-17A Recombinant Protein.

Product Information

Contents: Human IL-17A Recombinant Protein

REF **Catalog Number:** 14-8180

Concentration: 0.1 mg/mL

Handling Conditions: For best recovery, quick-spin vial prior to opening. Use in a sterile environment

Source: Insect cell expressed amino acids Met1-Ala155, accession number NM_002190

Molecular Mass: 35.0 kDa

Purity: > 97% 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 measured by IL-6 induction in normal human dermal fibroblasts (NHDF) is 0.5-5 ng/mL.

This corresponds to a specific activity of 2 x 10⁶ - 2 x 10⁵ Units/mg.

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



LOT



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 cell, $\gamma\delta$ 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.

This recombinant protein has been expressed in insect cells and is fully glycosylated. In addition, the *E. coli* expressed Human IL-17A Recombinant Protein (cat. 14-8179) is also available.

Applications Reported

Human IL-17A Recombinant Protein is biologically active.

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Applications Tested

The ED₅₀ of this protein, as measured by IL-6 induction in normal human dermal fibroblasts (NHDF) is 0.5-5 ng/ml. This corresponds to a specific activity of 2×10^6 - 2×10^5 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

13-7179 Anti-Human IL-17A Biotin (eBio64DEC17)

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

88-7876 Human IL-17A ELISPOT Ready-SET-Go!®

88-7976 Human IL-17A (Interleukin-17A, IL17A) ELISA Ready-SET-Go! Kit (See replacement item BMS2017)

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