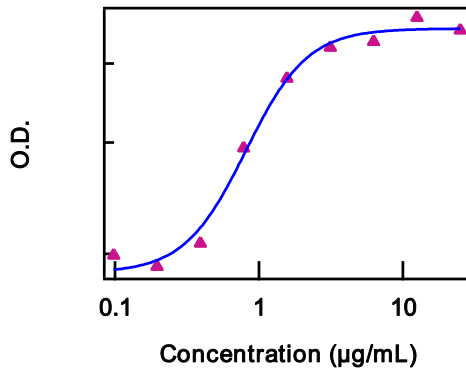


Rat IL-17F Recombinant Protein Carrier-Free

Catalog Number: 34-8116

Also known as: Interleukin-17F, IL17F

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



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

Product Information

Contents: Rat IL-17F Recombinant Protein Carrier-Free

REF **Catalog Number:** 34-8116

Clone: recombinant

Concentration: 0.5 mg/mL

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

Source: Insect expressed amino acids Met1-Ala153 accession number NM_001015011

Molecular Mass: 35.4 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 mouse IL-6 induction in NIH/3T3 fibroblast cells, is less than or equal to 5 ug/mL. This corresponds to a specific activity of greater than or equal to 2 x 10e2 Units/mg.

Formulation: Sterile liquid: 0.1 M glycine, 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

IL-17F is a member of the IL-17 family of proinflammatory cytokines. It is most similar to IL-17A, 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-17F is most often associated with the Th17 subset of CD4⁺ T cells, but has also been observed in NKT cells and γδ T cells. IL-17F is important as a neutrophil activator, and it induces inflammatory cytokine production in epithelial cells, endothelial cells, and fibroblasts through NF-κB signaling. IL-17F and Th17 cells have been implicated in various autoimmune disorders, including rheumatoid arthritis, psoriasis, irritable bowel syndrome, and asthma.

This recombinant protein has been expressed in insect cells and is fully glycosylated. *E. coli* expressed Rat IL-17F Recombinant Protein (cat. 14-8117) is also available.

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Applications Reported

Rat IL-17F Recombinant Protein Carrier-Free is biologically active.

Applications Tested

The ED₅₀ of this protein, as measured by mouse IL-6 induction in NIH/3T3 fibroblast cells, is less than or equal to 5 µg/ml. This corresponds to a specific activity of greater than or equal to 2 x 10² Units/mg.

References

Chang SH, Dong C. IL-17F: regulation, signaling, and function in inflammation. *Cytokine*. 2009 Apr 4; 6(1): 7-11.

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.

Related Products

14-8117 Rat IL-17F Recombinant Protein

14-8170 Rat IL-17A Recombinant Protein

14-8217 Rat IL-17AF Recombinant Protein

34-8471 Mouse IL-17F Recombinant Protein Carrier-Free

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