

Product Information

Contents: Carrier-Free Recombinant Mouse IL-17C (Interleukin-17C, IL17C)

Catalog Number: 34-8174

Sizes: 100 ug, 500 ug

Formulation: 20 mM Phosphate, 400 mM NaCl, pH 6.0, 0.22 um filtered.

Storage Conditions: For greatest stability, keep concentration of primary stock at or above 10 µg/ml. For long term storage, aliquot into polypropylene vials (volumes of 20 µl or greater) and store at or below -80°C. Avoid repeated freeze/thaw cycles.

Handling Conditions: For best recovery, always quick-spin vial prior to opening. For dilution of current stock, always include carrier protein (1% BSA or 10% FBS) in the buffered saline diluent.

Source: Insect cell expressed His tag + H15-Q194 of mature mouse IL-17C (accession #NP_665833).

Molecular Mass: The protein has a predicted molecular mass of 22,036 daltons.

Purity: Greater than 97% as determined by SDS-PAGE

Endotoxin Level: Less than 0.01 ng/ug cytokine as determined by the LAL assay.

Bioactivity: Testing in progress.

Available Formats of This Product

Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
14-8174	Mouse IL-17C Recombinant Protein	N/A	N/A	BA
34-8174	Mouse IL-17C Recombinant Protein Carrier-Free	N/A	N/A	BA

Flow Cytometry Product Notes:

Test Sizes: To accommodate multicolor flow cytometry, eBioscience is in the process of reducing test size volumes from 20 µl to 5 µl. Please check your antibody vial for the recommended test size.

Fluorochrome Replacements: eBioscience is in the process of replacing all Pacific Blue® and APC-Alexa Fluor® 750 conjugated products with eFluor™ 450 and APC-eFluor™ 780 conjugated products, respectively.

Custom Product Requests

Need a custom product? Download the Custom Product Request Form and submit completed form to customs@ebioscience.com.

Questions? Please consult our answers to frequently asked questions at <http://www.ebioscience.com/faq>.

Description

IL-17C is a member of the IL-17 family, which is comprised of six proteins (IL-17A through IL-17F). IL-17 proteins are pro-inflammatory cytokines that induce local cytokine production and are involved in the regulation of immune functions. IL-17C has been reported to stimulate the release of TNF-α and IL-1β from the monocytic cell line THP-1. IL-17C shares 15% to 30% amino acid sequence identity with the other IL-17 family members. Mouse and human IL-17C share 83% amino acid sequence identity. Mouse IL-17C cDNA encodes a 194 amino acid protein with a putative 14 amino acid signal peptide. The recombinant mouse IL-17C is a disulfide-linked homodimer composed of a 20.2 kDa monomeric subunit.

Applications Reported

For research use only, not for diagnostic or therapeutic use.

Applications Tested

Currently there is no reliable bioassay available for the recombinant mouse IL-17C.

References

Yamaguchi, Y. Fujio, K. Shoda, H. Okamoto, A. Tsuno, N. H. Takahashi, K. Yamamoto, K. IL-17B and IL-17C are associated with TNF-α production and contribute to the exacerbation of inflammatory arthritis. J Immunol. 2007 Nov 15;179(10):7128-36.

Hurst, S. D. Muchamuel, T. Gorman, D. M. Gilbert, J. M. Clifford, T. Kwan, S. Menon, S. Seymour, B. Jackson, C. Kung, T. T. Brieland, J. K. Zurawski, S. M. Chapman, R. W. Zurawski, G. Coffman, R. L. New IL-17 family members promote Th1 or Th2 responses in the lung: in vivo function of the novel cytokine IL-25. *J Immunol.* 2002 Jul 1;169(1):443-53.

Li, H. Chen, J. Huang, A. Stinson, J. Heldens, S. Foster, J. Dowd, P. Gurney, A. L. Wood, W. I. Cloning and characterization of IL-17B and IL-17C, two new members of the IL-17 cytokine family. *Proc Natl Acad Sci U S A.* 2000 Jan 18;97(2):773-8.

Related Products

Cat. 14-8171 Recombinant Mouse IL-17A (Interleukin-17A, IL17A)

Cat. 14-8179 Recombinant Human IL-17A (Interleukin-17A, IL17A)

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