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#50944

Mouse IL-17A Recombinant Protein



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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

25 µg

For Research Use Only. Not for Use in Diagnostic Procedures.

| MW (kDa): | UniProt ID: | Entrez-Gene Id: |
|---|-------------|-----------------|
| 30.2 | #Q62386 | 16171 |
| Background Interleukin-17A (IL-17A) is a cystine-linked homodimeric pro-inflammatory cytokine produced by Th ₁₇ cells, a distinct CD4 ⁺ T cell lineage (1,2). IL-17A stimulates production of the pro-inflammatory cytokines IL-1 β , TNF α , and IL-6. IL-17A also induces production of the neutrophil chemoattractants IL-8, CXCL1, and CXCL6 thereby bridging adaptive and innate immunity (1,2). IL-17A is intimately involved in mucosal immunity against bacterial infections (1,3) and has a putative role in some autoimmune disorders (1,4). IL-17A effects appear to be exerted primarily through binding to IL-17RA (5). IL-17A binding induces production of cytokines, chemokines, and other proteins through activation of the Erk1/2 MAP kinase, PI3K/Akt, p38, and NF- κ B pathways (3,4,6). Phosphorylation of some Jaks and Stats has been observed. | | |
| Endotoxin Endotoxin levels are less than or equal to 1 EU / 1 µg mIL-17A. | | |
| Purity A greater than or equal to 95% purity was determined by SDS-PAGE. | | |
| Source / Purification Recombinant mouse IL-17A was expressed in <i>E. coli</i> and is supplied in a lyophilized form | | |
| Bioactivity The bioactivity of recombinant mIL-17A was determined by measuring the secretion of IL-6 by NIH/3T3 cells. The ED ₅₀ of each lot is less than or equal to 5 ng/ml. | | |
| Background References 1. Kolls, J.K. and Lindén, A. (2004) <i>Immunity</i> 21, 467-76. 2. Liang, S.C. et al. (2006) <i>J Exp Med</i> 203, 2271-9. 3. Dubin, P.J. and Kolls, J.K. (2008) <i>Immunol Rev</i> 226, 160-71. 4. Zrioual, S. et al. (2009) <i>J Immunol</i> 182, 3112-20. 5. Wright, J.F. et al. (2008) <i>J Immunol</i> 181, 2799-805. 6. Rahman, M.S. et al. (2006) <i>J Immunol</i> 177, 4064-71. | | |

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