

Mouse Interleukin-17A (mIL-17A)



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MW (kDa):	UniProt ID:	Entrez-Gene Id:
15-22	#Q62386	16171

Background

IL-17A is a cysteine-linked homodimeric pro-inflammatory cytokine produced by Th₁₇ cells, a distinct CD4⁺ T cell lineage (1,2). IL-17A stimulates the 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 the 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

Less than 0.01 ng endotoxin/1 μ g mIL-17A.

Purity

>98% as determined by SDS-PAGE of 6 μ g reduced (+) and non-reduced (-) recombinant mIL-17A. All lots are greater than 98% pure.

Source / Purification

Recombinant mouse IL-17A (mIL-17A) Thr22-Ala158 (Accession #NP_034682) was expressed in human 293 cells at Cell Signaling Technology.

Bioactivity

The bioactivity of recombinant mIL-17A was determined by its ability to induce mouse IL-6 production by 3T3 MEFs WT. The ED₅₀ of each lot is between 0.4-1.4 ng/ml.

Background References

1. Kolls, J.K. and Lindén, A. (2004) *Immunity* 21, 467-76.
2. Liang, S.C. et al. (2006) *J Exp Med* 203, 2271-9.
3. Dubin, P.J. and Kolls, J.K. (2008) *Immunol Rev* 226, 160-71.
4. Zrioual, S. et al. (2009) *J Immunol* 182, 3112-20.
5. Wright, J.F. et al. (2008) *J Immunol* 181, 2799-805.
6. Rahman, M.S. et al. (2006) *J Immunol* 177, 4064-71.

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