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Mouse Interleukin-13 (mIL-13)

5 µg

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

MW (kDa):	UniProt ID:	Entrez-Gene Id:
12-20	#P20109	16163

Background

IL-13 is produced by T cells and is important in the TH2 response. IL-13 targets include B cells, eosinophils, fibroblasts, mast cells and macrophages (1-3). IL-13 binds specifically to IL-13Rα1 that complexes with IL-4Rα to form the Type II IL-4R. Jak1 and Tyk2 are activated and signal through Stat3 and Stat6 (4). IL-13Rα2 is a different gene product, lacks the intracellular domain, does not complex with IL-4Rα and does not signal (1,4,5). The extracellular domain of IL-13Rα2 is often elevated in diseased states. IL-13 plays key roles in airway hyperresponsiveness (AHR) of allergic asthma (1,6,7) and modulates resistance to parasitic organisms (1).

Endotoxin

Less than 0.01 ng endotoxin/1µg mIL-13.

Purity

>98% as determined by SDS-PAGE of 6 µg reduced (+) and non-reduced (-) recombinant mIL-13. All lots are greater than 98% pure.

Source / Purification

Recombinant mouse IL-13 (mIL-13) Ser26-Phe131 (Accession #NP_032381) was expressed in human 293 cells at Cell Signaling Technology.

Bioactivity

The bioactivity of recombinant mIL-13 was determined in a B9 cell proliferation assay. The ED₅₀ of each lot is between 0.5 - 20 ng/ml.

Background References

1. Wynn, T.A. (2003) *Annu Rev Immunol* 21, 425-56.
2. Katz, Y. et al. (1995) *Clin Exp Immunol* 101, 150-6.
3. McKenzie, A.N. et al. (1993) *Proc Natl Acad Sci USA* 90, 3735-9.
4. Wills-Karp, M. and Finkelman, F.D. (2008) *Sci Signal* 1, pe55.
5. Mentink-Kane, M.M. et al. (2004) *Proc Natl Acad Sci U S A* 101, 586-90.
6. Wills-Karp, M. et al. (1998) *Science* 282, 2258-61.
7. Nakajima, H. and Takatsu, K. (2007) *Int Arch Allergy Immunol* 142, 265-73.

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