

#8905 Store at -20C

Human Interleukin-13 (hIL-13)



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MW (kDa):	UniProt ID:	Entrez-Gene Id:
12	#P35225	3596
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 (6). IL-13Rα2 is a different gene product, lacks the intracellular domain, does not complex with IL-4Rα and does not signal (1,6,7). The extracellular domain of IL-13Rα2 is often elevated in diseased states. IL-13 plays key roles in airway hyperresponsiveness (AHR) of allergic asthma (1,4,5) and modulates resistance to parasitic organisms (1).		
Endotoxin		
Less than 0.01 ng endotoxin/1µg hIL-13.		
Purity		
>98% as determined by SDS-PAGE of 6 µg reduced (+) and non-reduced (-) recombinant hIL-13. All lots are greater than 98% pure.		
Source / Purification		
Recombinant human IL-13 (hIL-13) Gly21-Asn132 (Accession #AAK53823) was produced in <i>E. coli</i> at Cell Signaling Technology.		
Bioactivity		
The bioactivity of recombinant hIL-13 was determined in a TF-1 cell proliferation assay. The ED ₅₀ of each lot is between 0.6-1.2 ng/ml.		
Background References		
1. Wynn, T.A. (2003) <i>Annu Rev Immunol</i> 21, 425-56. 2. Katz, Y. et al. (1995) <i>Clin Exp Immunol</i> 101, 150-6. 3. McKenzie, A.N. et al. (1993) <i>Proc Natl Acad Sci USA</i> 90, 3735-9. 4. Wills-Karp, M. et al. (1998) <i>Science</i> 282, 2258-61. 5. Nakajima, H. and Takatsu, K. (2007) <i>Int Arch Allergy Immunol</i> 142, 265-73. 6. Wills-Karp, M. and Finkelman, F.D. (2008) <i>Sci Signal</i> 1, pe55. 7. Mentink-Kane, M.M. et al. (2004) <i>Proc Natl Acad Sci USA</i> 101, 586-90.		

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