Revision 8		
Human Interleukin-3 (hIL-3)		
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<b>MW (kDa):</b> 26	UniProt ID: #P08700	Entrez-Gene Id: 3562
20	#F08700	5302
Background		IL-3 is produced by T cells, mast cells and eosinophils (1). Target cells include hematopoietic progenitors, neutrophils, macrophages, mast cells, eosinophils, lymphoid and erythroid cells (1). The IL 3 receptor is a heterodimer of the IL-3 specific $\alpha$ -chain and the common $\beta$ -chain, $\beta$ c, which is also used by GM-CSF and IL-5. (1). Binding of IL-3 can also involve substitution of the $\beta$ c by a $\beta$ IL-3-chain that appears to be specific for IL-3 (1,2). Binding of IL-3 to its cognate receptor(s) induces activation of Jak2, phosphorylation of multiple Stats (1,3,5,6), and the PI3K/Akt pathway (1). IL-3 may play an important role in the development of airway inflammation associated with asthma (3,4,5).
Endotoxin		Less than 0.01 ng endotoxin/1 μg hIL-3.
Purity		>98% as determined by SDS-PAGE of 6 $\mu g$ reduced (+) and non-reduced (-) recombinant hIL-3. All lots are greater than 98% pure.
Source / Purific	cation	Recombinant human interleukin-3 (hIL-3) Ala20-Phe152 (Accession # NP_000579) was expressed in human 293 cells at Cell Signaling Technology.
Bioactivity		The bioactivity of recombinant hIL-3 was determined in a TF-1 cell proliferation assay. The $ED_{50}$ of each lot is between 50 -400 pg/ml.
Background Re	eferences	1. Reddy, E.P. et al. (2000) <i>Oncogene</i> 19, 2532-47. 2. Hara, T. and Miyajima, A. (1992) <i>EMBO J</i> 11, 1875-84. 3. Asquith, K.L. et al. (2008) <i>J Immunol</i> 180, 1199-206. 4. Schroeder, J.T. et al. (2009) <i>J Immunol</i> 182, 2432-8. 5. Munitz, A. et al. (2006) <i>J Immunol</i> 177, 77-83.
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