

Growth Factor Data Sheet

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Interleukin 13 (IL13) is an immunoregulatory cytokine produced primarily by activated Th2-cells, mast cells and natural killer (NK) cells. Targeted deletion of IL13 in mice resulted in impaired Th2 cell development, and indicated an important role for IL13 in the expulsion of gastrointestinal parasites. IL13 exerts anti-inflammatory effects on monocytes and macrophages, and inhibits the expression of inflammatory cytokines such as IL1 β , TNF- α , IL6 and IL8. IL13 has also been shown to enhance B-cell proliferation and induce isotype switching, which results in an increased production of IgE. Blocking IL13 activity inhibits the pathophysiology of asthma.

Catalog Number	1510-13
Product Name	IL13, Rat Recombinant Rat Interleukin-13 IL13 Interleukin 13
Source	<i>Escherichia coli</i>
MW	~12.1 kDa (110 amino acids)
Sequence	MPVRRSTSP VALRELIEEL SNITQDQKTS LCNSSMVWSV DLTAGGFCAA LESLTNISSC NAIHRTQRIL NGLCNQKASD VASSPPDTKI EVAQFISKLL NYSKQLFRYG H
Accession Number	P42203
Purity	>95% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The ED ₅₀ as determined by a cell proliferation assay using human TF-1 cells is less than 4 ng/ml, corresponding to a specific activity of >2.5 $\times 10^5$ IU/mg.
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
Reconstitution	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.