

# Growth Factor Data Sheet

GoldBio growth factors are manufactured for **RESEARCH USE ONLY** and cannot be sold for human consumption!

Interleukin-13 (IL13) is an immunoregulatory cytokine produced primarily by activated Th2 cells, along with mast cells and NK cells. Targeted deletion of IL13 in mice resulted in impaired Th2 cell development and indicated that IL13 plays an important role 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 $\beta$ , TNF- $\alpha$ , IL6 and IL8. IL13 has also been shown to enhance B-cell proliferation and to induce isotype switching which results in an increased production of IgE. It has been suggested that the blocking of IL13 and its downstream effectors could play a role in the mechanism of asthma. Human and murine IL13 are cross-species reactive.

<b>Catalog Number</b>	<b>1310-13</b>
<b>Product Name</b>	<b>IL13, Murine</b> Recombinant Murine Interleukin-13 IL13 Interleukin 13
<b>Source</b>	<i>Escherichia coli</i>
<b>MW</b>	~12.3 kDa (111 amino acids)
<b>Sequence</b>	MPVPRSVSLP LTLKELIEEL SNITQDQTPL CNGSMVWSVD LAAGGFCVAL DSLTNISNCN AIYRTQRILH GLCNRKAPTT VSSLPDTKIE VAHFITKLLS YTKQLFRHGP F
<b>Accession Number</b>	<a href="#">P20109</a>
<b>Purity</b>	>97% by SDS-PAGE and HPLC analyses
<b>Biological Activity</b>	Fully biologically active when compared to standard. The ED <sub>50</sub> 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 × 10 <sup>5</sup> IU/mg.
<b>Formulation</b>	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
<b>Storage/Handling</b>	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.
<b>Reconstitution</b>	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.