

## IL13

### Recombinant Rat IL-13

<b>Catalog No.</b>	CRI183A CRI183B CRI183C	<b>Quantity:</b>	2 µg 10 µg 1.0 mg
<b>Alternate Names:</b>	Interleukin-13		
<b>Description:</b>	<p>Interleukin-13 (IL-13) is expressed by the IL13 gene and secreted by many cell types, especially T helper type 2 (Th2) cells. It is a monomer with two internal disulfide bonds that contribute to a bundled four α-helix configuration. Targeted deletion of IL-13 in mice results in impaired Th2 cell development, which suggests an important role for IL-13 in the expulsion of gastrointestinal parasites. IL-13 exerts anti-inflammatory effects on monocytes and macrophages and it inhibits the expression of inflammatory cytokines such as IL-1 beta, TNF-alpha, IL-6 and IL-8. IL-13 has also been shown to enhance B cell proliferation and to induce isotype switching resulting in increased production of IgE. Mature rat IL-13 shares 59%, 75%, and 60% aa sequence identity with human, mouse, and rhesus IL-13.</p> <p>Recombinant Rat IL13 is a single non-glycosylated polypeptide chain containing 111 amino acids.</p>		
<b>GenelD:</b>	116553		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	12.2 kDa		
<b>Formulation:</b>	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.		
<b>Purity:</b>	>97% as determined by SDS-PAGE and HPLC analyses		
<b>Endotoxin Level:</b>	<1 EU/µg as determined by LAL method.		
<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.		
<b>Specific Activity:</b>	>2.5 × 10 <sup>5</sup> IU/mg.		
<b>Amino Acid Sequence:</b>	MPVRRSTSP VALRELIEEL SNITQDQKTS LCNSSMVWSV DLTAGGFCAA LESLTNISSC NAIHRTQRIL NGLCNQKASD VASSPPDTKI EVAQFISKLL NYSKQLFRYG H		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/ml. Further dilutions should be made in appropriate buffered solutions.		
<b>Storage &amp; Stability:</b>	The lyophilized protein is stable at 2-8°C. Upon receipt, store desiccated at -20°C. After reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. For long term storage of reconstituted protein, it is recommended that a carrier protein such as 0.1% BSA or HSA be added. This depends on the particular application. <b>Avoid repeated freeze/thaw cycles.</b>		

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