

## Active Recombinant Mouse Il13 Protein, His-Tagged

Cat. No. II13-01M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant mouse Il13 Protein, His-tagged was expressed in E. coli cell
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>Description</b>	<p>Interleukin 13 (IL-13) is a protein that in humans is encoded by the IL13 gene. IL-13 was first cloned in 1993 and is located on chromosome 5q31 with a length of 1.4kb. It has a mass of 13 kDa and folds into 4 alpha helical bundles. The secondary structural features of IL-13 are similar to that of Interleukin 4 (IL-4); however it only has 25% sequence homology to IL-4 and is capable of IL-4 independent signaling. IL-13 is a cytokine secreted by T helper type 2 (Th2) cells, CD4 cells, Natural killer T cell, Mast cell, Basophil cells, Eosinophil cells and Nuocyte cells. Interleukin-13 is a central regulator in IgE synthesis, goblet cell hyperplasia, mucus hypersecretion, airway hyperresponsiveness, fibrosis and chitinase up-regulation. It is a mediator of allergic inflammation and different diseases including asthma.</p>
<b>Form</b>	Lyophilized powder
<b>AA Sequence</b>	<p>MPVPRSVSLPLTLKELIEELSNITQDQTPLCNGSMVWSVDLAAGGFCVALDSL TNISN            CNAIYRTQRILHGLCNRKAPTTVSSLPDTKIEVAHFI            TKLLSYTKQLFRHGPF with polyhistidine tag at the C-terminus</p>
<b>Endotoxin</b>	<0.1 EU per 1 µg of the protein by the LAL method.

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<b>Bio-activity</b>	Measure by its ability to induce TF-1 cells proliferation. The ED50 for this effect is <4 ng/mL. The specific activity of recombinant mouse IL-13 is > 2.5 x 10 <sup>5</sup> IU/mg.
<b>Purity</b>	>95% as determined by SDS-PAGE. Ni-NTA chromatography
<b>Storage Buffer</b>	The protein was lyophilized from a solution containing 1X PBS, pH 7.4.
<b>Reconstitution</b>	It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> O to a concentration not less than 100 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.
<b>Storage</b>	Lyophilized protein should be stored at -20°C. Upon reconstitution, protein aliquots should be stored at -20°C or -80°C.
<b>Notes</b>	Please use within one month after protein reconstitution.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">IL12 interleukin 12 [ Mus musculus (house mouse) ]</a>
<b>Official Symbol</b>	<a href="#">IL13</a>
<b>Synonyms</b>	IL-13
<b>Gene ID</b>	<a href="#">16163</a>
<b>mRNA Refseq</b>	<a href="#">NM_008355.3</a>
<b>Protein Refseq</b>	<a href="#">NP_032381.1</a>
<b>UniProt ID</b>	<a href="#">P20109</a>

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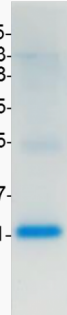
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