

## Active Recombinant Mouse Il13 Protein (Pro22-Fhe131), C-His tagged, Animal-free, Carrier-free

**Cat. No.** Il13-49M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                        |
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| <b>Product Overview</b> | Recombinant Mouse Il13 Protein (Pro22-Fhe131) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.                                                                                                                                                                                                                         |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                 |
| <b>ProteinLength</b>    | Pro22-Fhe131                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | Interleukin 13 (IL-13) with a molecular mass of 10 kDa cytokine, it secreted by T helper type 2 (Th2) cells, CD4 cells, natural killer T cell, mast cells, basophils, eosinophils and nuocytes. It is homologous to IL-4 and shares many of its biologic activities on mononuclear phagocytic cells, endothelial cells, epithelial cells, and B cells. |
| <b>Form</b>             | Lyophilized                                                                                                                                                                                                                                                                                                                                            |
| <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 × 10 <sup>5</sup> IU/mg.                                                                                                                                                                   |
| <b>Molecular Mass</b>   | The protein has a calculated MW of 13.06 kDa.<br>The protein migrates about 11 kDa under reducing condition (SDS-PAGE analysis).                                                                                                                                                                                                                       |
| <b>Endotoxin</b>        | < 0.1 EU/μg of the protein by the LAL method.                                                                                                                                                                                                                                                                                                          |

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|                       |                                                                                                                                                                                                                                                                  |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | >95% as determined by SDS-PAGE analysis.                                                                                                                                                                                                                         |
| <b>Storage</b>        | <p>This product is stable after storage at:</p> <p>-20 centigrade for 12 months in lyophilized state from date of receipt.</p> <p>-20 or -80 centigrade for 2 weeks under sterile conditions after reconstitution.</p> <p>Avoid repeated freeze/thaw cycles.</p> |
| <b>Storage Buffer</b> | Lyophilized from a 0.2 µm filtered solution of 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 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.                                          |
| <b>Shipping</b>       | The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.                                                                                                                                    |

## GENE INFORMATION

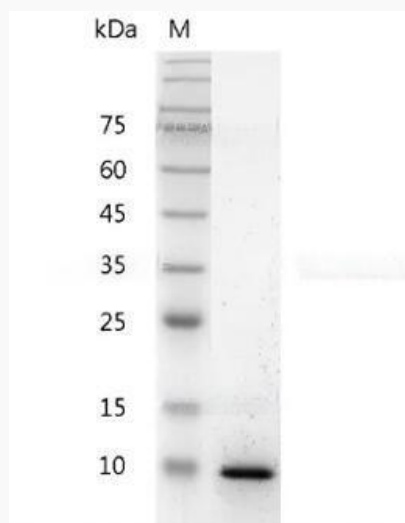
|                        |                                                                              |
|------------------------|------------------------------------------------------------------------------|
| <b>Gene Name</b>       | IL13 interleukin 13 [ <i>Mus musculus</i> (house mouse) ]                    |
| <b>Official Symbol</b> | IL13                                                                         |
| <b>Synonyms</b>        | IL13; interleukin 13; interleukin-13; T-cell activation protein P600; IL-13; |
| <b>Gene ID</b>         | 16163                                                                        |
| <b>mRNA Refseq</b>     | NM_008355                                                                    |
| <b>Protein Refseq</b>  | NP_032381                                                                    |
| <b>UniProt ID</b>      | P20109                                                                       |

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**SDS-PAGE analysis  
of recombinant  
mouse IL-13.**



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