

## IL13 active protein

Recombinant Mouse IL13

CATALOG #  
**AAA214322**

HOST  
**E Coli**

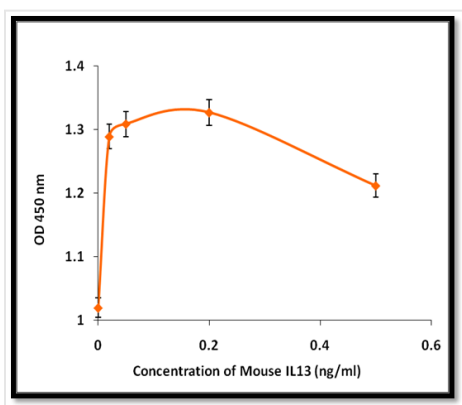
### PRODUCT SYNONYMS

IL13; Recombinant Mouse IL13; IL-13; T-cell activation protein P600; Recombinant Mouse Interleukin-13 (IL13); IL13 active protein

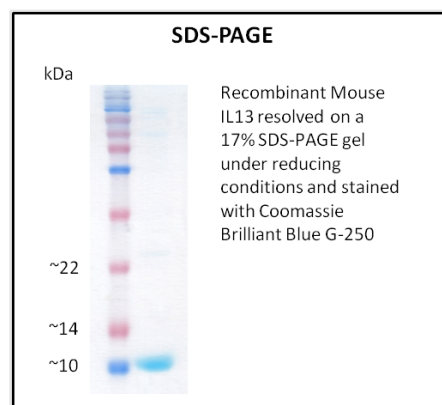
### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli                                                                                                                                                                                                                                                                                                                              |
| Purity/Purification     | >95% as determined by SDS-PAGE                                                                                                                                                                                                                                                                                                      |
| Form/Format             | Lyophilized from a 0.2 um filtered PBS solution.                                                                                                                                                                                                                                                                                    |
| Sequence Length         | 131                                                                                                                                                                                                                                                                                                                                 |
| Bioactivity             | The ED(50) was determined by the dose-dependent proliferation of TF-1 cells was $\leq 2.0$ ng/mL, corresponding to a specific activity of $\geq 1.0 \times 10^6$ units/mg.                                                                                                                                                          |
| Endotoxin Level         | $<1.0$ EU/ug of recombinant protein as determined by the LAL method.                                                                                                                                                                                                                                                                |
| Reconstitution          | A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.                                                                                                                                                            |
| Preparation and Storage | The lyophilized protein is stable for at least one year from date of receipt at -70 degree C. Upon reconstitution, this cytokine can be stored in working aliquots at 2-8 degree C for one month, or at -20 degree C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles. |

### IMAGES



Application Data



Application Data

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| Related Product Information for IL13 active protein | Mouse IL-13 is produced primarily by activated Th2 cells. Human IL-13 is expressed in activated T helper cells (resembling Th0, Th1, Th2), and T cells expressing CD8. The alpha chain of the IL-13 receptor has weak binding activity for IL-13. High affinity receptors are formed when the receptor alpha chains of IL-13 and IL-4 receptors are coexpressed. The receptors for IL-13 and IL-4 share a component, a common gamma subunit that is found also in the IL-2 receptor. Different IL-13 receptor structures have been shown to exist on various cell types and the IL-13 receptor may share more than one component with IL-4 receptor. IL-13 down-modulates macrophage activity, reducing the production of pro-inflammatory cytokines and chemokines in response to IFN-gamma or bacterial lipopolysaccharides. IL-13 enhances the production of the IL-1 receptor antagonist IL-1ra. IL-13 also decreases the production of nitric oxide by activated macrophages, leading to a decrease in parasitocidal activity. IL-13 induces differentiation of human monocytes, enhances survival time in culture, and also induces differentiation and proliferation and isotype switching in B cells. |
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NCBI AND UNIPROT INFORMATION

|                                  |                |
|----------------------------------|----------------|
| NCBI GI #                        | 6680403        |
| NCBI GeneID                      | 16163          |
| NCBI Accession #                 | NP_032381.1    |
| NCBI GenBank Nucleotide #        | NP_032381.1    |
| UniProt Accession #              | P20109         |
| Molecular Weight                 | 12.0 kDa       |
| NCBI Official Full Name          | interleukin-13 |
| NCBI Official Synonym Full Names | interleukin 13 |
| NCBI Official Symbol             | IL13           |
| NCBI Official Synonym Symbols    | IL-13          |
| NCBI Protein Information         | interleukin-13 |
| UniProt Protein Name             | Interleukin-13 |
| UniProt Gene Name                | IL13           |
| UniProt Synonym Gene Names       | IL-13; IL-13   |
| UniProt Entry Name               | IL13_MOUSE     |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/il13/214322>