

## IL1A active protein

Recombinant Mouse IL1A

CATALOG #  
**AAA214312**

HOST  
**E Coli**

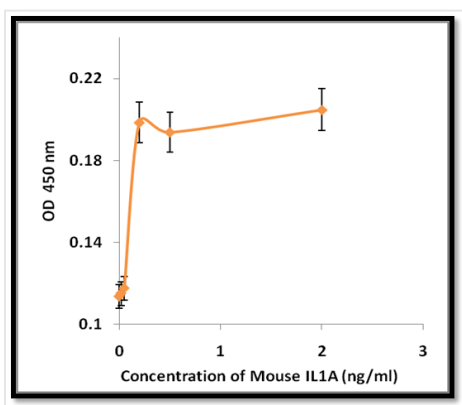
### PRODUCT SYNONYMS

IL1A; Recombinant Mouse IL1A; IL-1 alpha; IL1a; Recombinant Mouse Interleukin-1 Alpha (IL1A); IL1A 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         | 270                                                                                                                                                                                                                                                                                                                                 |
| Bioactivity             | The ED(50) was determined by a cell proliferation assay using the murine helper T cell line, D10.G4., was found to be 10.0 pg/mL.                                                                                                                                                                                                   |
| 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

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for IL1A active protein | Monocytes are the main source of secreted IL-1. They express predominantly IL-1-beta while human keratinocytes express large amounts of IL-1-alpha. Murine macrophages display a transition from IL-1-beta to IL-1-alpha production during maturation of monocytes into inflammatory macrophages. There are two functionally almost equivalent forms of IL-1, IL-1-alpha and IL-1-beta that are encoded by two different genes. IL-1-beta is the predominant form in humans while it is IL-1-alpha in mice. Both forms of IL-1 bind to the same receptor and therefore also show similar if not identical biological activities. The IL-1-beta but not the IL-1-alpha precursor must be processed before it can bind to the receptor. Both forms of IL-1 bind to the same receptor and therefore also show similar if not identical biological activities. The receptor isolated from T-cells is expressed predominantly on T cells and cells of mesenchymal origin. It binds both types of IL-1 with equal affinity. This type is called also Type 1 receptor. It has been designated CD121a. The Type 2 receptor has been designated CD121b. It is isolated from B-cells, granulocytes, and macrophages. It is expressed predominantly on B-cells and cells of the myelomonocytic lineage and is encoded by a separate gene. |
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NCBI AND UNIPROT INFORMATION

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|----------------------------------|---------------------|
| NCBI GI #                        | 47059075            |
| NCBI GeneID                      | 16175               |
| NCBI Accession #                 | NP_034684.2         |
| NCBI GenBank Nucleotide #        | NP_034684.2         |
| UniProt Accession #              | P01582              |
| Molecular Weight                 | 18.0 kDa            |
| NCBI Official Full Name          | interleukin-1 alpha |
| NCBI Official Synonym Full Names | interleukin 1 alpha |
| NCBI Official Symbol             | IL1a                |
| NCBI Official Synonym Symbols    | IL-1a               |
| NCBI Protein Information         | interleukin-1 alpha |
| UniProt Protein Name             | Interleukin-1 alpha |
| UniProt Gene Name                | IL1a                |
| UniProt Synonym Gene Names       | IL-1 alpha          |
| UniProt Entry Name               | IL1A_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://www.aaabiotech.com/e-coli-active-protein/il1a/214312>