

## IL1B active protein

Recombinant Rat IL1B

CATALOG #  
AAA214339

HOST  
E Coli

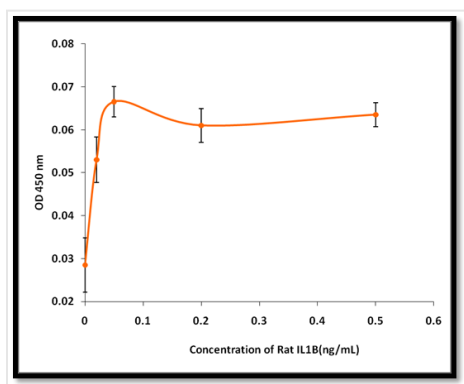
### PRODUCT SYNONYMS

IL1B; Recombinant Rat IL1B; IL-1b; Recombinant Rat Interleukin-1 Beta (IL1B); IL1B active protein

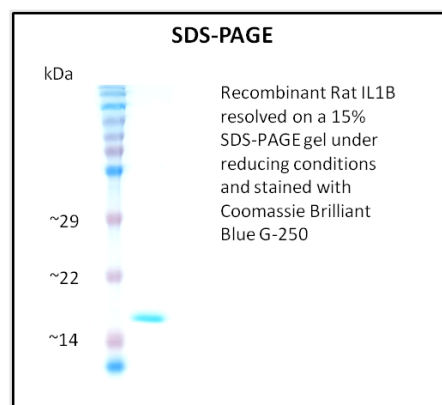
### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli                                                                                                                                                                                                                                                                                                                              |
| Purity/Purification     | >95% as determined by SDS-PAGE                                                                                                                                                                                                                                                                                                      |
| Form/Format             | Lyophilized from a 0.2 um filtered solution in PBS, pH 7.                                                                                                                                                                                                                                                                           |
| Sequence Length         | 268                                                                                                                                                                                                                                                                                                                                 |
| Bioactivity             | The ED(50) was determined by the dose-dependent stimulation of thymidine uptake by murine D10S cells is $\leq 2.0$ pg/mL, corresponding to a specific activity of $\geq 5.0 \times 10^8$ 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 IL1B 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

|                                  |                    |
|----------------------------------|--------------------|
| NCBI GI #                        | 2497335            |
| NCBI GeneID                      | 24494              |
| UniProt Accession #              | Q63264             |
| Molecular Weight                 | 17.0 kDa           |
| NCBI Official Full Name          | Interleukin-1 beta |
| NCBI Official Synonym Full Names | interleukin 1 beta |
| NCBI Official Symbol             | IL1b               |
| NCBI Official Synonym Symbols    | IL-1F2             |
| NCBI Protein Information         | interleukin-1 beta |
| UniProt Protein Name             | Interleukin-1 beta |
| UniProt Gene Name                | IL1b               |
| UniProt Synonym Gene Names       | IL-1 beta          |
| UniProt Entry Name               | IL1B_RAT           |

**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/il1b/214339>