

## Interleukin-1 alpha Active Protein | mIL 1 alpha active protein

Recombinant Mouse Interleukin-1 alpha

CATALOG #  
**AAA38549**

HOST  
**E Coli**

### PRODUCT SYNONYMS

Interleukin-1 alpha; Recombinant Mouse Interleukin-1 alpha; IL 1 alpha Mouse; Interleukin-1 alpha Mouse Recombinant; Hematopoietin-1; Lymphocyte-activating factor (LAF); Endogenous Pyrogen (EP); Leukocyte Endogenous Mediator (LEM); Mononuclear Cell Factor (MCF); IL-1 alpha; IL1; IL-1A; IL1F1; mIL 1 alpha active protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli                                                                                                                                                                                                                                                                                                                                                             |
| Purity/Purification     | Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.                                                                                                                                                                                                                                                                            |
| Form/Format             | The protein was lyophilized from a concentrated (1mg/ml) sterile solution containing 1X PBS, pH=7.4. Sterile Filtered White lyophilized (freeze-dried) powder.                                                                                                                                                                                                     |
| Sequence                | SAPYTYQSDL RYKLMKLVQR KFVMNDSLNR TIYQDVVDKHY LSTTWLNDLQ QEVKFDMYAY SSGGDDSKYP VTLKISDSQL FVSAQGDDQP VLLKELPETP KLITGSETDL IFFWKSINSK NYFTSAAYPE LFIATKEQSR VHLARGLPSM TDFQIS                                                                                                                                                                                       |
| Sequence Length         | 270                                                                                                                                                                                                                                                                                                                                                                |
| Solubility              | It is recommended to reconstitute the lyophilized Interleukin 1a in sterile 18M Omega -cm H2O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.                                                                                                                                                                               |
| Biological Activity     | The ED50 as determined by the dose-dependant stimulation of murine D10S cells is < 0.01 ng/ml, corresponding to a Specific Activity of 100,000,000IU/mg.                                                                                                                                                                                                           |
| Preparation and Storage | Lyophilized Interleukin-1a although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution IL1A should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles. |

### ADDITIONAL INFORMATION

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for mIL 1 alpha active protein | <p><b>Description:</b> Interleukin-1A Mouse Recombinant produced in E Coli is single, a non-glycosylated, Polypeptide chain containing 156 amino acids and having a molecular mass of 18 kDa. The IL-1A is purified by proprietary chromatographic techniques.</p> <p><b>Introduction:</b> Interleukin-1 alpha is a proinflammatory cytokine produced by a wide variety of cell types, including macrophages, osteoblasts, monocytes and hepatocytes. Circulating levels of are normally low and only rise after stimulation by agents such as those produced by inflammation, infection or microbial endotoxins. IL-1 alpha possesses a wide variety of biological activities and exerts its effects by binding to specific cell surface receptors.</p> |
| Product Categories/Family for mIL 1 alpha active protein   | Cytokines and Growth Factors; Cytokines; Interleukin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

### NCBI AND UNIPROT INFORMATION

|             |          |
|-------------|----------|
| NCBI GI #   | 47059075 |
| NCBI GeneID | 16175    |

|                                  |                                 |
|----------------------------------|---------------------------------|
| NCBI Accession #                 | <a href="#">NP_034684.2</a>     |
| NCBI GenBank Nucleotide #        | <a href="#">NM_010554.4</a>     |
| UniProt Accession #              | <a href="#">P01582</a>          |
| Molecular Weight                 | 31,023 Da                       |
| 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; IL-1 alpha |
| UniProt Protein Name             | Interleukin-1 alpha             |
| UniProt Gene Name                | <b>Il1a</b>                     |
| 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://stage.aaabiotech.com/e-coli-mil-1-alpha-active-protein/interleukin-1-alpha/38549>