

## Active Recombinant Human IL1A, MlgG2a Fc-tagged

**Cat. No.** IL1A-36682H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | The extracellular domain of human IL-1a (NP_000566.3)(Ser113-Ala271) is fused to the N-terminus of the Fc region of mouse IgG2a was expressed in CHO cell.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Source</b>           | CHO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>    | 113-271 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>      | The protein encoded by this gene is a member of the interleukin 1 cytokine family. This cytokine is a pleiotropic cytokine involved in various immune responses, inflammatory processes, and hematopoiesis. This cytokine is produced by monocytes and macrophages as a proprotein, which is proteolytically processed and released in response to cell injury, and thus induces apoptosis. This gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2. It has been suggested that the polymorphism of these genes is associated with rheumatoid arthritis and Alzheimer's disease. |
| <b>Form</b>             | Lyophilized from 0.2µm-filtered solution in PBS.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Bio-activity</b>     | cytokine activity; interleukin-1 receptor binding; protein binding                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Molecular Mass</b>   | 44KDa (monomer)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>AA Sequence</b>      | Ser113-Ala271                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

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|                       |                                                                                                                                     |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>      | <0.06 eu/μg="" as="" determined="" by="" la="">                                                                                     |
| <b>Purity</b>         | >98%, by SDS-PAGE under reducing conditions.                                                                                        |
| <b>Stability</b>      | Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C. |
| <b>Reconstitution</b> | Reconstitute at 100μg/ml in sterile PBS.                                                                                            |
| <b>Warning</b>        | Avoid freeze/thaw cycles.                                                                                                           |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                          |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | IL1A interleukin 1, alpha [ Homo sapiens ]                                                                                                                                                                               |
| <b>Official Symbol</b> | IL1A                                                                                                                                                                                                                     |
| <b>Synonyms</b>        | IL1A; interleukin 1, alpha; IL1; interleukin-1 alpha; hematopoietin 1; IL 1A; IL1 ALPHA; IL1F1; preinterleukin 1 alpha; pro interleukin 1 alpha; IL-1 alpha; hematopoietin-1; pro-interleukin-1-alpha; IL-1A; IL1-ALPHA; |
| <b>Gene ID</b>         | 3552                                                                                                                                                                                                                     |
| <b>mRNA Refseq</b>     | NM_000575                                                                                                                                                                                                                |
| <b>Protein Refseq</b>  | NP_000566                                                                                                                                                                                                                |
| <b>MIM</b>             | 147760                                                                                                                                                                                                                   |
| <b>UniProt ID</b>      | P01583                                                                                                                                                                                                                   |

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|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chromosome Location</b> | 2q14                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Pathway</b>             | Apoptosis, organism-specific biosystem; Apoptosis, conserved biosystem; Cytokine Signaling in Immune system, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Cytokines and Inflammatory Response, organism-specific biosystem; FAS pathway and Stress induction of HSP regulation, organism-specific biosystem; |
| <b>Function</b>            | copper ion binding; cytokine activity; interleukin-1 receptor binding; protein binding;                                                                                                                                                                                                                                                                                                                                        |

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