

Active Recombinant Human IL1A, MIgG2a Fc-tagged

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	CHO
ProteinLength	113-271 a.a.
Description	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.
Form	Lyophilized from 0.2µm-filtered solution in PBS.
Bio-activity	cytokine activity; interleukin-1 receptor binding; protein binding
Molecular Mass	44KDa (monomer)
AA Sequence	Ser113-Ala271

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Endotoxin	<0.06 eu/μg="" as="" determined="" by="" lal="">
Purity	>98%, by SDS-PAGE under reducing conditions.
Stability	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.
Reconstitution	Reconstitute at 100μg/ml in sterile PBS.
Warning	Avoid freeze/thaw cycles.

GENE INFORMATION

Gene Name	IL1A interleukin 1, alpha [Homo sapiens]
Official Symbol	IL1A
Synonyms	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;
Gene ID	3552
mRNA Refseq	NM_000575
Protein Refseq	NP_000566
MIM	147760
UniProt ID	P01583

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Chromosome Location	2q14
Pathway	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;
Function	copper ion binding; cytokine activity; interleukin-1 receptor binding; protein binding;

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