

Active Recombinant Human IL1A Protein

Cat. No. IL1A-049H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human interleukin-1 α is expressed in E. coli and consists of 159 amino acids with no disulfide bonds.
Species	Human
Source	E.coli
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	Sterile lyophilized powder
Molecular Mass	~18.0 kDa
Bio-activity	Specific activity is determined by an IL-1 α -dependent proliferation assay using the D10.G4.1 cell line, and is $\geq 1.6 \times 10^8$ IU/mg.
Endotoxin	<1 EU/ μ g determined by LAL.

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Purity	≥97%
Storage	Lyophilized samples remain stable for 36 months when stored at –20 to –70 centigrade from the date of manufacture. After reconstitution, the cytokine can be kept for one month at 2–8 centigrade under sterile conditions, or for three months at –20 to –70 centigrade in a manual-defrost freezer, without significant loss of activity. Avoid repeated freeze-thaw cycles.
Storage Buffer	This product is supplied as a sterile lyophilized powder in a buffer of PBS, pH7.4, 0.1% HSA.
Reconstitution	Before opening the vial, centrifuge at 10, 000 rpm for 30–60 seconds, or at 3, 000 rpm for 5 minutes, then reconstitute with 0.2 mL of sterile water.

GENE INFORMATION

Gene Name	IL1A interleukin 1, alpha [Homo sapiens (human)]
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

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UniProt ID

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