

## Active Recombinant Human IL1A protein, His-tagged

Cat. No. IL1A-134H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Active Recombinant Human IL1A protein(Q53QF9)(113~271 aa), fused with N-terminal His tag, was expressed in E.coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	113-271 aa
<b>Form</b>	Lyophilized from sterile 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
<b>Bio-activity</b>	<p>IL1<math>\alpha</math> (Interleukin-1 alpha) is a member of the interleukin 1 cytokine family. 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 cell apoptosis. It is reported that exposure of MCF-7 cells to certain concentration of IL1<math>\alpha</math> results in inhibition of cell growth. Thus, an cell proliferation assay of MCF-7 was conducted with the addition of IL1<math>\alpha</math>. MCF-7 cells were seeded overnight at a density of 5,000 cells/well, and then treated with or without various concentrations of IL1<math>\alpha</math> for 72h, then cells were observed by inverted microscope and cell viability was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10<math>\mu</math> of CCK-8 solution was added to each well of the plate, then measure the absorbance at 450nm using a microplate reader after incubating the plate for 1-4 hours in at 37°C.</p> <p>Inhibition of MCF-7 cell proliferation after incubation with IL1<math>\alpha</math> for 72h observed by</p>

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inverted microscope was shown.

**Molecular Mass** 21.2kDa

**Purity** > 97% as determined by SDS-PAGE.

**Storage** Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.

**Reconstitution** Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## 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

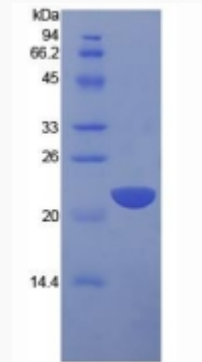
**UniProt ID** P01583

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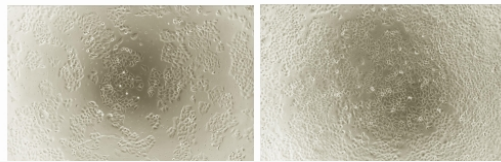
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**SDS-PAGE**



**Activity**



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