

Active Recombinant Human IL1A protein, His-tagged

Cat. No. IL1A-1018H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human IL1A protein(Q53QF9)(1~271 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-271 aa
Form	Lyophilized from sterile PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	IL1α(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 IL1α results in inhibition of cell growth. Thus, an cell proliferation assay of MCF-7 was conducted with the addition of IL1α. MCF-7 cells were seeded overnight at a density of 4,000 cells/well, and then treated with or without various concentrations of IL1α for 72h, then cells were observed by inverted microscope and cell viability was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10 μl of CCK-8 solution was added to each well of the plate, then measure the absorbance at 450 nm using a microplate reader after incubating the plate for 1-4 hours in at 37°C. Inhibition of MCF-7 cell proliferation after incubation with IL1α for 72h observed by inverted microscope was shown. Cell

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viability was assessed by CCK-8 (Cell Counting Kit-8) assay after incubation with various concentrations of IL1 α for 72h. The mean OD value of MCF-7 assessed by CCK-8 was shown. It was obvious that IL1 α significantly decreased cell viability of MCF-7 cells and the EC50 was 4.69 ug/ml.

Molecular Mass	34.3kDa
Endotoxin	<1.0EU per 1 μ g (determined by the LAL method).
Purity	> 90% 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 10mM PBS (pH7.4) 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

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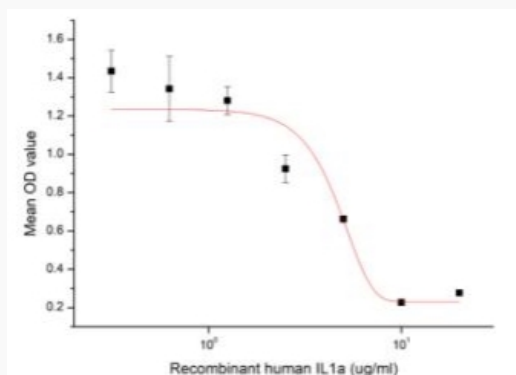
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Protein Refseq NP_000566

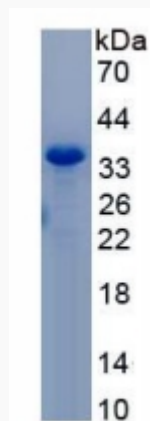
MIM 147760

UniProt ID P01583

Activity



SDS-PAGE



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