

Human IL1 alpha protein, His tag (active)

Cat No. GTX00067-pro**Application** Functional Assay**Species** Human**Package**

10 µg

APPLICATION

Application Note

IL1 α (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 α results in inhibition of cell growth. Thus, an cell proliferation assay of MCF-7 was conducted with the addition of IL1 α . MCF-7 cells were seeded overnight at a density of 5000 cells/well, and then treated with or without various concentrations of IL1 α 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 450nm 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 IL1 α for 72h observed by inverted microscope.

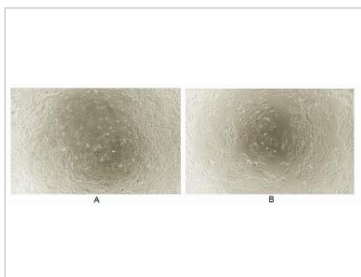
Observed MW 21 kDa.

PROPERTIES

Form Lyophilized powder**Buffer** Lyophilized from 20 mM Tris (pH 8.0) with 150 mM NaCl, 1 mM EDTA, 1 mM DTT, 0.01% SKL, 5% Trehalose, Proclin300. Reconstitute with 20 mM Tris and 150 mM NaCl (pH 8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.**Storage** For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.**Region/Sequence** N-terminal His-Tag; Ser113~Ala271 (NP_000566.3)**Expression System** E. coli**Purity** > 97%**Endotoxin** < 1 EU/µg**Conjugation** Unconjugated**Note** For laboratory use only. Not for any clinical, therapeutic, or diagnostic use in humans or animals. Not for animal or human consumption.

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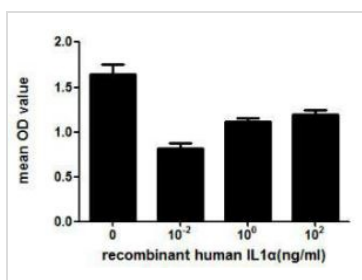
DATA IMAGES

**GTX00067-pro Functional Assay Image**

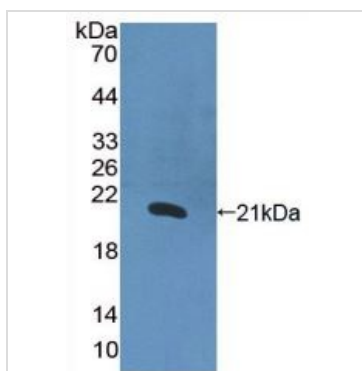
Cell suppression effect of GTX00067-pro Human IL1 alpha protein (active).

(A) Unstimulated MCF-7 cells cultured in DMEM for 72hrs.

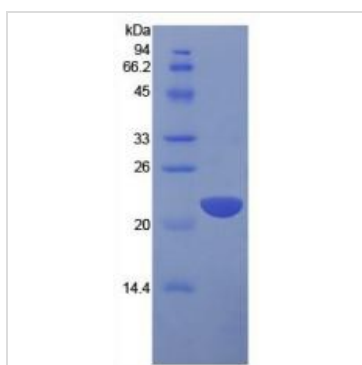
(B) MCF-7 cells cultured in DMEM, stimulated with 1 ng/ml IL1 α for 72hrs.

**GTX00067-pro Functional Assay Image**

The inhibitory effect of GTX00067-pro Human IL1 alpha protein (active) on the cell proliferation of MCF-7 cells. After incubation of Human IL1 alpha protein (active) for 72hrs, cell viability was measured by Cell Counting Kit-8 (CCK-8).

**GTX00067-pro Image**

WB analysis of GTX00067-pro Human IL1 alpha protein (active).

**GTX00067-pro Image**

SDS-PAGE analysis of GTX00067-pro Human IL1 alpha protein (active).



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