

Human IL1 alpha protein, His tag (active)

Cat. No. GTX00264-pro

Applications Functional Assay**Species** Human**Package**

10 µg

Applications

Application Note

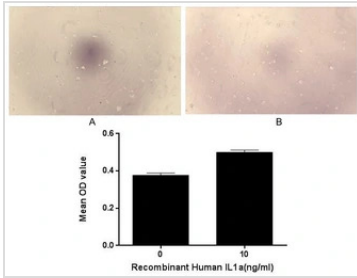
Cell proliferation of Jurkat cells after stimulated with IL1a. Interleukin 1 alpha (IL1 α) also known as hematopoietin 1 is a cytokine of the interleukin 1 family that in humans is encoded by the IL1A gene. IL1 α is produced mainly by activated macrophages, as well as neutrophils, epithelial cells, and endothelial cells. It possesses metabolic, physiological, haematopoietic activities, and plays one of the central roles in the regulation of the immune responses. It binds to the interleukin-1 receptor. It is on the pathway that activates tumor necrosis factor-alpha. To test the effect of IL1a on cell proliferation, Jurkat cells were seeded into triplicate wells of 96-well plates at a density of 2000 cells/well with 2% serum standard RPMI-1640 including various concentrations of recombinant human IL1a. After incubated for 96h, cells were observed by inverted microscope and cell proliferation 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 the absorbance at 450nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37°C. Proliferation of Jurkat cells after incubation with IL1a for 96h observed by inverted microscope.

Observed MW (kDa) 24 kDa.

Properties

Form Lyophilized powder**Buffer** Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.**Preservative** ProClin 300**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; Glu98~Ala271 (NP_000566.3)**Expression System** E. coli**Purity** > 95%**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.

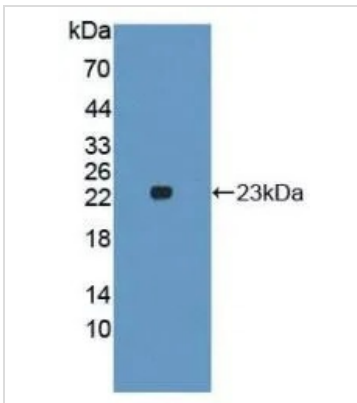
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DATA IMAGES

GTx00264-pro Functional Assay Image

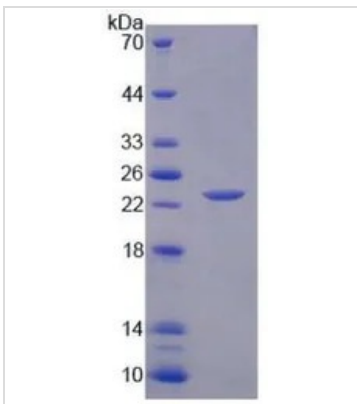
Cell proliferation effect of GTX00264-pro Human IL1 alpha protein (active). Cell viability was measured by Cell Counting Kit-8 (CCK-8).

(A) Unstimulated Jurkat cells cultured in RPMI-1640 for 96hrs.

(B) Jurkat cells cultured in RPMI-1640, stimulated with 10 ng/ml IL1 alpha for 96hrs.


GTx00264-pro Image

WB analysis of GTX00264-pro Human IL1 alpha protein (active).


GTx00264-pro Image

SDS-PAGE analysis of GTX00264-pro Human IL1 alpha protein (active).



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