

Human IL15 protein, His tag (active)

Cat. No. GTX00088-pro

Applications	Functional Assay	Package
Species	Human	10 µg

Applications

Application Note

Interleukin 15 (IL15) is a widely expressed cytokine that is structurally and functionally related to IL2, which plays an important role in many immunological diseases. IL15 also regulates T and natural killer (NK) cell activation and proliferation. To test the effect of IL15 on cells proliferation of human T lymphocyte cells, Jurkat cells were seeded into triplicate wells of 96-well plates at a density of 1×10^4 cells/well in RPMI-1640 with the addition of various concentrations of IL15. After incubated for 72h, 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. Cell proliferation of Jurkat cells after incubation with IL15 for 72h observed by inverted microscope.

Observed MW (kDa) 14/16/18 kDa.

Properties

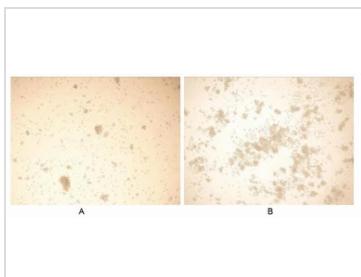
Form	Lyophilized powder
Buffer	Reconstitute with 20mM Tris and 150mM NaCl to 0.1-1.0mg/ml. Do not vortex. Lyophilized from 20mM Tris, 150mM NaCl, 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose.
Preservative	ProClin 300
Storage	For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.
Region/Sequence	N-terminal His-Tag; Trp50~Ser162 (NP_000576.1)
Expression System	HEK293 cells
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

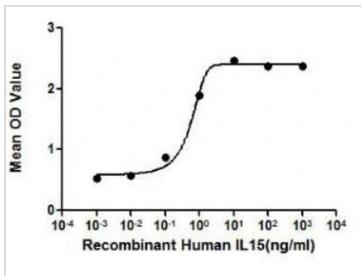


GTX00088-pro Functional Assay Image

Cell proliferation effect of GTX00088-pro Human IL15 protein (active).

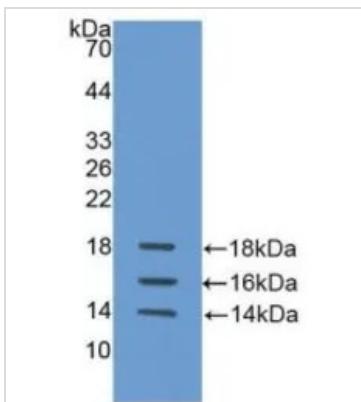
(A) Unstimulated Jurkat cells cultured in RPMI-1640 for 72hrs.

(B) Jurkat cells cultured in RPMI-1640, stimulated with 1 ng/ml IL15 for 72hrs.



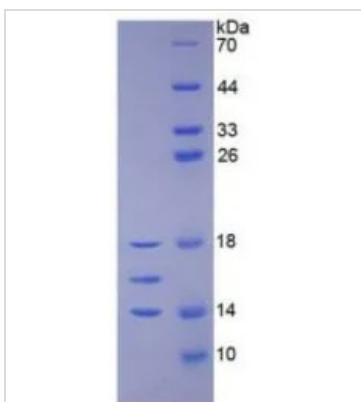
GTX00088-pro Functional Assay Image

The dose effect curve of GTX00088-pro Human IL15 protein (active) on Jurkat cells. After incubation of Human IL15 protein (active) for 72 hrs, cell proliferation was measured by Cell Counting Kit-8 (CCK-8).



GTX00088-pro Image

WB analysis of GTX00088-pro Human IL15 protein (active).



GTX00088-pro Image

SDS-PAGE analysis of GTX00088-pro Human IL15 protein (active).



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