

Human IL2 protein, His tag (active)

Cat. No. GTX00092-pro

Applications	Functional Assay	References (1)
Species	Human	Package 10 µg

Applications

Application Note

IL2 (Interleukin-2) is a cytokine produced by T-cells in response to antigenic or mitogenic stimulation. IL2 is a type of signaling molecule in the immune system, that is required for both T-cell and B-cell proliferation and other activities crucial to regulation of the immune response. Recombinant human IL2 shares 56% AA sequence identity with mouse IL2, suggesting the exist of cross-species activity. Therefore, in order to detect the bioactivity of rhIL2, a cell proliferation assay has been conducted using CTLL-2 mouse cytotoxic T cells. Briefly, CTLL-2 cells were seeded into triplicate wells of 96-well plates at a density of 5000 cells/well with or without the addition of various concentrations of IL2. After incubated for 48h, cells were observed by inverted microscope. Proliferation of CTLL-2 cells after incubation with IL2 for 48h observed by inverted microscope.

Observed MW (kDa) 18 kDa.

Properties

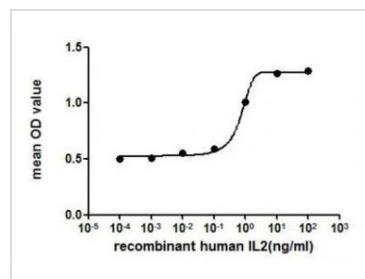
Form	Lyophilized powder
Buffer	Reconstitute with 10mM PBS (pH7.4) to 0.1-1.0mg/ml. Do not vortex. Lyophilized from PBS (pH7.6), 5% Trehalose.
Preservative	No preservatives
Storage	For short-term storage (1-2 weeks), store at 4°C. For long-term storage, store at -20°C or below. After reconstitution, keep as concentrated solution. Avoid freeze-thaw cycles.
Region/Sequence	N-terminal His-Tag; Ala21~Thr153 (NP_000577.2)
Expression System	HEK293 cells
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.



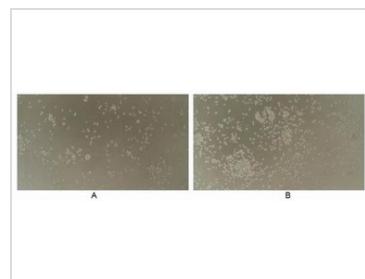
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DATA IMAGES

**GTX00092-pro Functional Assay Image**

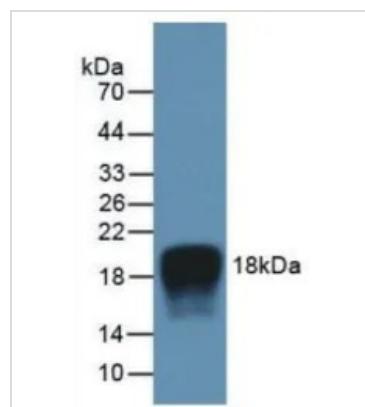
The dose effect curve of GTX00092-pro Human IL2 protein (active) on CTLL-2 cells. After incubation of Human IL2 protein (active) for 48 hrs, cell proliferation was measured by Cell Counting Kit-8 (CCK-8).

**GTX00092-pro Functional Assay Image**

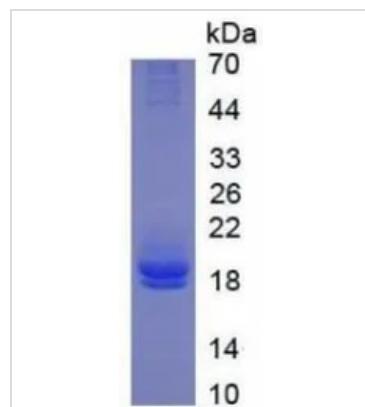
Cell proliferation effect of GTX00092-pro Human IL2 protein (active).

(A) Unstimulated CTLL-2 cells cultured in RPMI-1640 for 48hrs.

(B) CTLL-2 cells cultured in RPMI-1640, stimulated with 10 ng/ml IL2 for 48hrs.

**GTX00092-pro Image**

WB analysis of GTX00092-pro Human IL2 protein (active).

**GTX00092-pro Image**

SDS-PAGE analysis of GTX00092-pro Human IL2 protein (active).



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