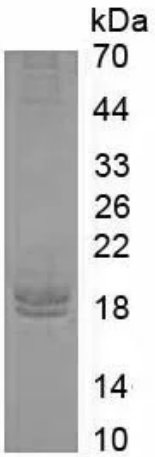
Active Interleukin 2 (IL2)

Catalog#:PHH12117

概述（Summary）

别称（Alternative Names）	TCGF; Lymphokine; T-Cell Growth Factor; Aldesleukin
纯度（Purity）	Greater than 95% as determined by reducing SDS-PAGE.
内毒素（Endotoxin level）	Please contact with the lab for this information
蛋白构建（Construction）	【Ala21-Thr153】
Accession #	P60568
表达宿主（Host）	293F
种属（Species）	Homo sapiens (Human)
预测分子量（Predicted MW）	17.0 kDa
制剂（Form）	Lyophilized from a 0.2 μm filtered solution of PBS, pH7.6, containing 5% trehalose.
运输方式（Shipping）	The product is shipped with ice bag. Upon receipt, store it immediately at the temperature listed below.
稳定性&储存（Stability &Storage）	12 months at -20°C to -80°C in lyophilized state.6 months at -20°C to -80°C under sterile conditions after reconstitution.7-10 days at 2°C to 8°C under sterile conditions after reconstitution.Please minimize freeze-thaw cycles.
复溶（Reconstitution）	Reconstitute in PBS (pH7.6) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
背景介绍（References）	Produced by T-cells in response to antigenic or mitogenic stimulation, this protein is required for T-cell proliferation and other activities crucial to regulation of the immune response. Can stimulate B-cells, monocytes, lymphokine-activated killer cells, natural killer cells, and glioma cells.

电泳图（SDS-PAGE image）



Greater than 95% as determined by reducing SDS-PAGE.

活性图（Bioactivity image）

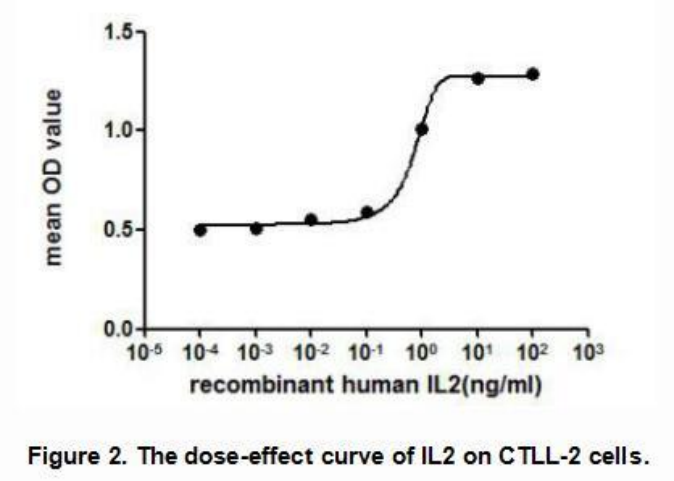


Figure 2. The dose-effect curve of IL2 on CTLL-2 cells.

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 5,000 cells/well with or without the addition of various concentrations of IL2. After incubated for 48h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). 10μL of CCK-8 solution was added to each well of the plate, the absorbance at 450nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37°C. Proliferation of CTLL-2 cells after incubation with IL2 for 48h observed by inverted microscope was shown in Figure 1. The dose-effect curve of CTLL-2 was shown in Figure 2. It was obvious that CTLL-2 significantly promoted cell proliferation of CTLL-2 cells. The ED50 for this effect is typically 1.992 to 6.663 ng/mL.

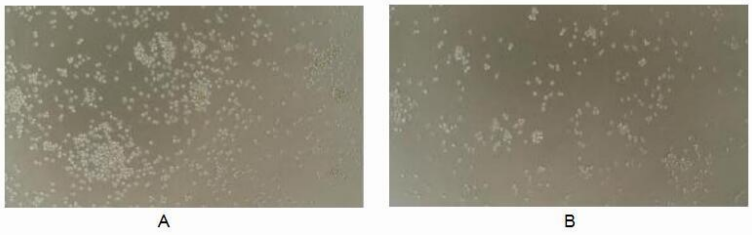


Figure 1. Cell proliferation of CTLL-2 cells after stimulated with IL2.

(A) CTLL-2 cells cultured in 1640, stimulated with 10ng/mL IL2 for 48h;

(B) Unstimulated CTLL-2 cells cultured in 1640 for 48h.

注意事项（Note）

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