Datasheet for ABIN6239761

IL-15 Protein (AA 50-162) (His tag)

3 Images

Go to Product page

Overview

Quantity:	50 µg
Target:	IL-15 (IL15)
Protein Characteristics:	AA 50-162
Origin:	Human
Source:	Escherichia coli (E. coli)
Biological Activity:	Active
Purification tag / Conjugate:	This IL-15 protein is labelled with His tag.
Application:	Activity Assay (AcA), Cell Culture (CC)

Product Details

Characteristics:	Tag location: N-terminal His Tag
Purity:	> 97 %
Biological Activity Comment:	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 10, 000 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, 10µL 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 was shown in

Product Details

	Figure 1. The dose-effect curve of IL15 was shown in Figure 2. It was obvious that IL15 significantly promoted cell proliferation of Jurkat cells. The ED50 for this effect is typically 0.7240 to 5.206ng/mL.

Target Details

Target:	IL-15 (IL15)
Abstract:	IL15 Products
Molecular Weight:	14/16/18kDa
UniProt:	P40933
Pathways:	JAK-STAT Signaling, Glycosaminoglycan Metabolic Process

Application Details

Application Notes:	Isoelectric Point: 5.1
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	20 mM Tris, 150 mM NaCl, pH 8.0, containing 1 mM EDTA, 1 mM DTT, 0.01 % SKL, 5 % Trehalose and Proclin300.
Preservative:	Dithiothreitol (DTT), Other preservative, ProClin
Precaution of Use:	This product contains ProClin and Dithiothreitol (DTT): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

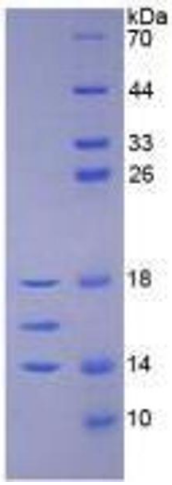

Image 1.

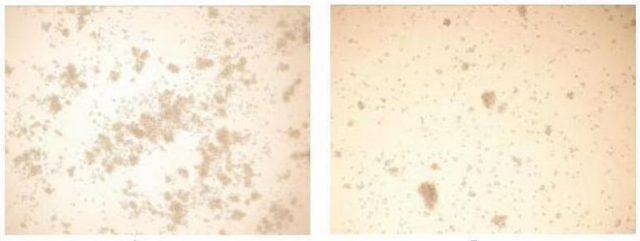

Figure 1. Cell proliferation of Jurkat cells after stimulated with IL15.
(A) Jurkat cells cultured in RPMI-1640, stimulated with 1ng/mL IL15 72h;
(B) Unstimulated Jurkat cells cultured in RPMI-1640 for 72h.

Image 2.

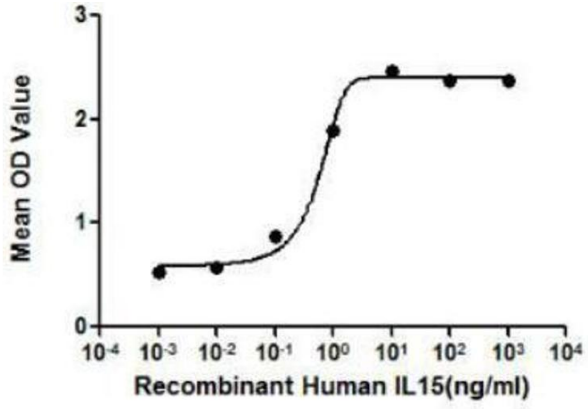

Figure 2. The dose-effect curve of IL15 on Jurkat cells.

Image 3. 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 10, 000 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, 10μL 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 was shown in Figure 1. The dose-effect curve of IL15 was shown in Figure 2. It was obvious that IL15 significantly promoted cell proliferation of Jurkat cells. The ED50 for this effect is typically 0.7240 to 5.206ng/mL.