

Datasheet for ABIN6239770  
**IL-24 Protein (AA 51-206) (His tag)**

## 3 Images

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## Overview

Quantity:	50 µg
Target:	IL-24 (IL24)
Protein Characteristics:	AA 51-206
Origin:	Human
Source:	Escherichia coli (E. coli)
Biological Activity:	Active
Purification tag / Conjugate:	This IL-24 protein is labelled with His tag.
Application:	Activity Assay (AcA), Cell Culture (CC)

## Product Details

Characteristics:	Tag location: N-terminal His Tag
Purity:	> 90 %
Biological Activity Comment:	IL24 (interleukin 24) is a cytokine that belongs to IL10 family. This protein can induce apoptosis selectively in various cancer cells, including ECV304. Thus, inhibition of cell proliferation assay of IL24 was conducted using ECV-304 cells. Briefly, ECV-304 cells were seeded into triplicate wells of 96-well plates at a density of 2,000 cells/well and allowed to attach overnight, then the medium was replaced with serum-free standard 1640 prior to the addition of various concentrations of IL24. After incubated for 48h, 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. Inhibition of ECV-304 cells proliferation after incubation with IIL24 for 48h observed by inverted microscope was

## Product Details

shown in Figure 1. Cell viability was assessed by CCK-8 (Cell Counting Kit-8 ) assay after incubation with various concentrations of IL24 for 48h. The mean OD value of ECV-304 assessed by CCK-8 was shown in Figure 2. It was obvious that IL24 significantly decreased cell viability of ECV-304 cells.

## Target Details

Target:	IL-24 (IL24)
Abstract:	<a href="#">IL24 Products</a>
Background:	Alternative Names: C49A, FISP, IL10B, MDA7, Mob-5, ST16, Mda-7, Melanoma Differentiation Association Protein 7, Suppression Of Tumorigenicity 16
Molecular Weight:	18kDa
UniProt:	<a href="#">Q13007</a>
Pathways:	<a href="#">Cellular Response to Molecule of Bacterial Origin</a> , <a href="#">Positive Regulation of Endopeptidase Activity</a> , <a href="#">Autophagy</a>

## Application Details

Application Notes:	Isoelectric Point: 8.6
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.

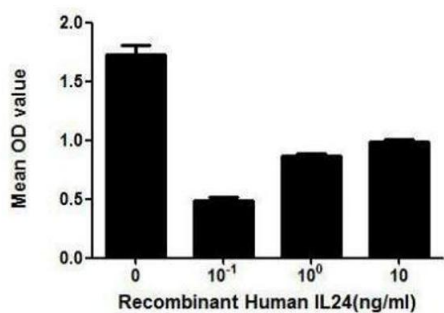


Figure 2. Inhibition of ECV-304 cells proliferation after stimulated with IL24.

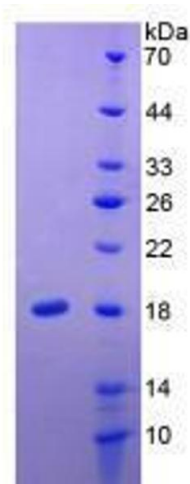
**Image 1.** IL24 (interleukin 24) is a cytokine that belongs to IL10 family. This protein can induce apoptosis selectively in various cancer cells, including ECV304. Thus, inhibition of cell proliferation assay of IL24 was conducted using ECV-304 cells. Briefly, ECV-304 cells were seeded into triplicate wells of 96-well plates at a density of 2,000 cells/well and allowed to attach overnight, then the medium was replaced with serum-free standard 1640 prior to the addition of various concentrations of IL24. After incubated for 48h, 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. Inhibition of ECV-304 cells proliferation after incubation with IL24 for 48h observed by inverted microscope was shown in Figure 1. Cell viability was assessed by CCK-8 (Cell Counting Kit-8 ) assay after incubation with various concentrations of IL24 for 48h. The mean OD value of ECV-304 assessed by CCK-8 was shown in Figure 2. It was obvious that IL24 significantly decreased cell viability of ECV-304 cells.



Figure 1. Inhibition of ECV-304 cells proliferation after stimulated with IL24.

(A) ECV-304 cells cultured in RPMI-1640, stimulated with 0.1ng/mL IL24 48h;  
(B) Unstimulated ECV-304 cells cultured in serum-free RPMI-1640 for 48h.

**Image 2.**



SDS-PAGE

**Image 3.** Figure. SDS-PAGE; Sample: Active recombinant IL24, Human.