

## Human IL16 protein, His tag (active)

Cat. No. GTX00089-pro

Application	Functional Assay
Species	Human

Package  
10 µg

## APPLICATION

## Application Note

Pro-IL16 (Interleukin16) is a 631 amino acid precursor molecule, which is then cleaved into different isoforms. Researches have shown that the recombinant human IL16, containing C-terminal 130 amino acids, has same bioactivity as the natural secreted human IL16. Besides, IL16 has been considered to stimulate the proliferation of Jurkat cells at low dose (10<sup>-9</sup> M). Thus, a proliferation assay of recombinant human IL16 was conducted using Jurkat cells. Briefly, Jurkat cells were seeded into triplicate wells of 96-well plates at a density of 1x10<sup>4</sup> cells/well in RPMI-1640 with the addition of various concentrations of IL16. 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 IL16 for 72h observed by inverted microscope.

Observed MW 17 kDa.

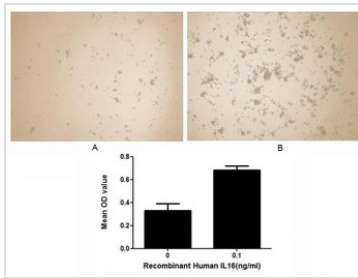
## PROPERTIES

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; Met1203~Ser1332 (NP_001165599.1)
Expression System	E. coli
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

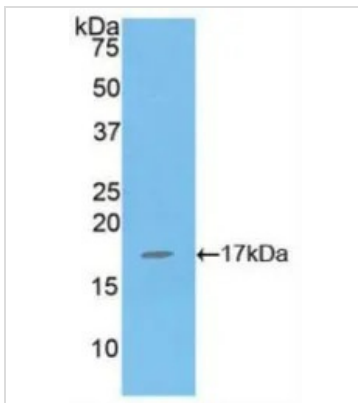


**GTx00089-pro Functional Assay Image**

Cell proliferation effect of GTX00089-pro Human IL16 protein (active). Cell viability was measured by Cell Counting Kit-8 (CCK-8).

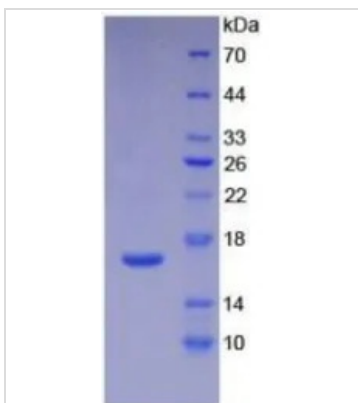
(A) Unstimulated Jurkat cells cultured in RPMI-1640.

(B) Jurkat cells cultured in RPMI-1640, stimulated with 0.1 ng/ml IL16.



**GTx00089-pro Image**

WB analysis of GTX00089-pro Human IL16 protein (active).



**GTx00089-pro Image**

SDS-PAGE analysis of GTX00089-pro Human IL16 protein (active).



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