

Interleukin 16 (IL16) Active Protein | IL16 active protein

Active Interleukin 16 (IL16)

CATALOG # AAA148141	REACTIVITY Human	APPLICATIONS Activity Assay, Cell Culture
-------------------------------	----------------------------	---

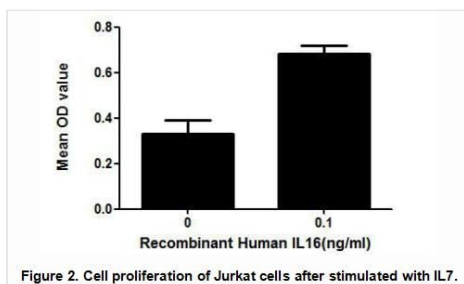
PRODUCT SYNONYMS

Interleukin 16 (IL16); Active Interleukin 16 (IL16); LCF; PrIL-16; Lymphocyte Chemoattractant Factor; Pro-Interleukin 16; IL16 active protein

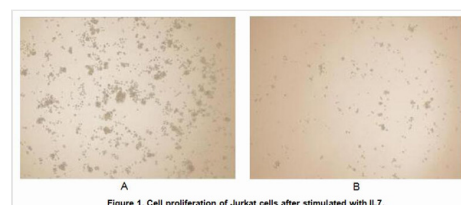
PRODUCT SPECIFICATIONS

Reactivity	Human
Purity/Purification	> 97%
Form/Format	Freeze-dried powder
Sequence Length	1331
Applicable Applications for IL16 active protein	Activity Assay, Cell Culture
Tag	N-terminal His Tag
Buffer Formulation	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Fragment	Met1203-Ser1332
Isoelectric Point	6

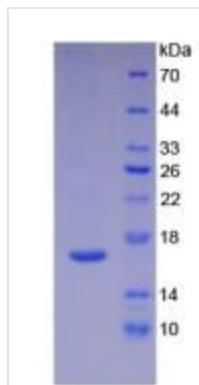
IMAGES



Application Data



Application Data



SDS-PAGE

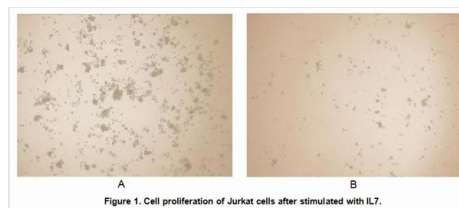


Figure 1. Cell proliferation of Jurkat cells after stimulated with IL7.

Activity

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 (10-9 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 10,000 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, 10uL 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 degree C. Cell proliferation of Jurkat cells after incubation with IL16 for 72h observed by inverted microscope was shown in Figure 1. The CCK-8 data was shown in Figure 2. It was obvious that IL16 significantly promoted cell proliferation of Jurkat cells.

ADDITIONAL INFORMATION

Product Categories/Family for IL16 active protein

Cytokine; Infection immunity; Autoimmunity

NCBI AND UNIPROT INFORMATION

NCBI GI #	289063395
NCBI GeneID	3603
NCBI Accession #	NP_001165599.1
NCBI GenBank Nucleotide #	NM_001172128.1
UniProt Accession #	Q14005; Q16435; Q6VVE6; Q6ZMQ7; Q9UP18; A6NM20; A8MU65; B5TY35; B9EGR6; H3BVH5
Molecular Weight	Predicted Molecular Weight: 17.1kDa Accurate Molecular Weight: 17kDa
NCBI Official Full Name	pro-interleukin-16 isoform 3
NCBI Official Synonym Full Names	interleukin 16
NCBI Official Symbol	IL16
NCBI Official Synonym Symbols	LCF; NIL16; PRIL16; prIL-16
NCBI Protein Information	pro-interleukin-16
UniProt Protein Name	Pro-interleukin-16
UniProt Gene Name	IL16
UniProt Synonym Gene Names	IL-16; LCF

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/human-active-protein/interleukin-16-il16/148141>