

## Active Recombinant Human IL16 protein, His-tagged

Cat. No. IL16-551H Lot. No. (See product label)

### SPECIFICATION

|                         |   |
|-------------------------|---|
| <b>Product Overview</b> | Active Recombinant Human IL16 protein(Q14005)(1203~1332 aa), fused with N-terminal His tag, was expressed in E.coli.  |
| <b>Species</b>          | Human   |
| <b>Source</b>           | E.coli  |
| <b>ProteinLength</b>    | 1203-1332 aa  |
| <b>Form</b>             | Lyophilized from sterile 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.  |
| <b>Bio-activity</b>     | 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, 10μ 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 |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

incubation with IL16 for 72h observed by inverted microscope was shown. The CCK-8 data was shown. It was obvious that IL16 significantly promoted cell proliferation of Jurkat cells.

|                       |  |
|-----------------------|--|
| <b>Molecular Mass</b> | 17.1kDa  |
| <b>Endotoxin</b>      | <1.0EU per 1µg (determined by the LAL method).   |
| <b>Purity</b>         | > 97% as determined by SDS-PAGE.   |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months. |
| <b>Reconstitution</b> | Reconstitute in ddH <sub>2</sub> O to a concentration of 0.1-0.2 mg/mL. Do not vortex.                     |

## GENE INFORMATION

|                        |   |
|------------------------|---|
| <b>Gene Name</b>       | IL16 interleukin 16 [ Homo sapiens ]  |
| <b>Official Symbol</b> | IL16  |
| <b>Synonyms</b>        | IL16; interleukin 16; interleukin 16 (lymphocyte chemoattractant factor); pro-interleukin-16; FLJ16806; FLJ42735; HsT19289; IL 16; LCF; lymphocyte chemoattractant factor; prIL 16; prointerleukin 16; neuronal interleukin 16; NIL16; PRIL16; prIL-16; FLJ44234; |
| <b>Gene ID</b>         | 3603  |
| <b>mRNA Refseq</b>     | NM_001172128  |
| <b>Protein Refseq</b>  | NP_001165599  |

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**MIM** 603035

**UniProt ID** Q14005

**SDS-PAGE**

**Activity**

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