

## Recombinant Human IL16

Cat. No. IL16-28597TH    Lot. No. (See product label)

### SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Recombinant full length Human IL16; amino acids 1212-1332 , 12.4 kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>              | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>ProteinLength</b>       | 1212-1332 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>         | <p>The protein encoded by this gene is a pleiotropic cytokine that functions as a chemoattractant, a modulator of T cell activation, and an inhibitor of HIV replication. The signaling process of this cytokine is mediated by CD4. The product of this gene undergoes proteolytic processing, which is found to yield two functional proteins. The cytokine function is exclusively attributed to the secreted C-terminal peptide, while the N-terminal product may play a role in cell cycle control. Caspase 3 is reported to be involved in the proteolytic processing of this protein. Alternate splicing results in multiple transcript variants.</p> |
| <b>Tissue specificity</b>  | Isoform 3 is expressed in hemopoietic tissues, such as resting T-cells, but is undetectable during active T cell proliferation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Biological activity</b> | Biological Activity: Determined by its ability ot chemoattract Human CD4+ T-Lymphocytes using a concentration range of 50.0-100.0 ng/ml.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Form</b>                | Lyophilised:Reconstituted IL16-28597TH is stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. Avoid repeated freeze/thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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|                                 |                                                                                                                                             |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>                   | >95% by SDS-PAGE                                                                                                                            |
| <b>Storage</b>                  | Store at -20°C. Stable for 12 months at -20°C                                                                                               |
| <b>Sequences of amino acids</b> | SAASASAASD VSVESTAEAT VCTVTLEKMS AGLGFSLEGG KGSLHGDKPL<br>TINRIFKGAA SEQSETVQPG DEILQLGGTA MQGLTRFEAW NIIKALPDGP<br>VTIVIRRKSL QSKETTAAGD S |
| <b>Sequence Similarities</b>    | Contains 4 PDZ (DHR) domains.                                                                                                               |
| <b>Full Length</b>              | Full L.                                                                                                                                     |

## 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; |
| <b>Gene ID</b>         | 3603                                                                                                                                                                                                   |
| <b>mRNA Refseq</b>     | NM_001172128                                                                                                                                                                                           |
| <b>Protein Refseq</b>  | NP_001165599                                                                                                                                                                                           |
| <b>MIM</b>             | 603035                                                                                                                                                                                                 |
| <b>Uniprot ID</b>      | Q14005                                                                                                                                                                                                 |

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|----------------------------|--------------------|
| <b>Chromosome Location</b> | 15q26.3            |
| <b>Function</b>            | cytokine activity; |

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