

Active Recombinant Human IL16 protein

Cat. No. IL16-126H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL16 was expressed in E. coli.
Species	Human
Source	E.coli
Description	Interleukin 16 (IL16) is a pleiotropic cytokine derived from CD8+ T-cells that stimulates chemotaxis in CD4+ lymphocytes, monocytes, and eosinophils. It primes CD4+ T-cells for IL2 and IL15 responsiveness, induces T-lymphocyte Interleukin 2 (IL2) receptor expression, and inhibits HIV replication. The signalling process of IL16 is mediated by CD4, and undergoes proteolysis to yield two functional proteins. IL16 isoform 1 has the possible function of acting as a scaffolding protein to anchor ion channels in the membrane, while isoform 3 is involved in cell cycle progression in T-cells and transcriptional regulation of SKP2. IL16 mRNA expression levels have been found in various tissues such as spleen, bone marrow, thymus, and lymph nodes.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
Bio-activity	The ED50 is 7.5-37.5 ng/mL as determined by its ability to chemoattract human CD4+ T lymphocytes (at a concentration range of 1.0-100.0 ng/mL).
Molecular Mass	13.5 kDa
Endotoxin	<1.0 EU/µg of recombinant protein as determined by the LAL method.

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Purity	>95%
Applications	Cell Assay
Storage	The lyophilized protein is stable for at least one year from date of receipt at -70 centigrade. Upon reconstitution, this cytokine can be stored in working aliquots at 2 centigrade - 8 centigrade for one month, or at -20 centigrade for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.
Reconstitution	Reconstitute in sterile PBS at 5 µg/ml

GENE INFORMATION

Gene Name	IL16 interleukin 16 [Homo sapiens]
Official Symbol	IL16
Synonyms	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;
Gene ID	3603
mRNA Refseq	NM_001172128
Protein Refseq	NP_001165599
MIM	603035
UniProt ID	Q14005

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Chromosome Location 15q26.3

Function cytokine activity;



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