9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

# IL 16 Human, (121 a.a.)

*Interleukin-16 Human Recombinant, (121 a.a.)*
*CYK0258*

## Product Overview

| | |
|---|---|
| Name | IL 16 Human, (121 a.a.) |
| **Description** | |
| Interleukin-16 Human Recombinant, (121 a.a.) | |
| Accession (Primary) | Q14005 |
| **Synonyms** | |
| IL16, Interleukin-16, LCF, Lymphocyte Chemoattractant Factor, prIL-16, IL-16, FLJ16806, FLJ42735, FLJ44234, HsT19289. | |
| **Introduction** | |
| IL-16 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 IL-16 is mediated by CD4. The product of this gene undergoes proteolytic processing, which is found to yield two functional proteins. IL-16 functions 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. Two transcript variants encoding different isoforms have been found for this gene. IL-16 stimulates a migratory response in cd4+ lymphocytes, monocytes, and eosinophils. Also induces t-lymphocyte expression of interleukin 2 receptor, ligand for cd4. | |
| **Source** | |
| Escherichia Coli. | |
| **Physical Appearance** | |
| Sterile Filtered White lyophilized (freeze-dried) powder. | |
| **Formulation** | |
| IL-16 was lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4. | |
| **Stability** | |
| Lyophilized Interleukin-16 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL16 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles. | |
| **Purity** | |
| Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis SDS-PAGE. | |
| **Amino acid sequence** | |

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SAASASAASD VSVESTAEAT VCTVTLEKMS AGLGFSLEGG KGSLHGDKPL TINRIFKGAA SEQSETVQPG DEILQLGGTA MQGLTRFEAW NIIKALPDGP VTIVIRRKSL QSKETTAAGD S

**Biological Activity**

Fully biologically active when compared to standard. Determined by its ability to chemoattract human CD4+ T-Lymphocytes using a concentration range of 50.0-100.0 ng/ml.

**Solubility**

It is recommended to reconstitute the lyophilized Interleukin-16 in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

**Precautions**

IL 16 Human, (121 a.a.) is for research use only and not for use in diagnostic or therapeutic procedures.

## Target Information: ( Q14005 )