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**Product Data Sheet**

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Product Name: IL 16 Human, (130 a.a.)  
Cat. No.: GP20575  
Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	IL16; Interleukin-16; LCF; Lymphocyte Chemoattractant Factor; prIL-16; IL-16; FLJ16806; FLJ42735; FLJ44234; HsT19289.		
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Met-Pro-Asp-Leu-Asn.		
Solubility	It is recommended to reconstitute the lyophilized Interleukin-16 in sterile 18MΩ-cm H <sub>2</sub> O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	IL-16 was lyophilized at 1 mg/ml in 10mM NaP, pH-7.5.		

**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.

**Biological Activity**

The ED50 as determined by its ability to chemoattract human CD4+ T lymphocytes using a concentration range of 10-100ng/ml, corresponding to a Specific Activity of 10,000-100,000 units/mg.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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### Stability

Lyophilized Interleukin-16 although stable at room temperature for 3 weeks, should be stored desiccated below  $-18^{\circ}\text{C}$ . Upon reconstitution IL16 should be stored at  $4^{\circ}\text{C}$  between 2-7 days and for future use below  $-18^{\circ}\text{C}$ . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

Interleukin-16 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 130 amino acids and having a molecular mass of 13.5 kDa. The IL-16 is purified by proprietary chromatographic techniques.

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