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

IL 16 Human, (130 a.a.)

Interleukin-16 Human Recombinant, (130 a.a.)
CYK0259

Product Overview

Name	IL 16 Human, (130 a.a.)
Description	
Interleukin-16 Human Recombinant, (130 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 at 1 mg/ml in 10mM NaP, pH-7.5.	
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 90.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis SDS-PAGE.	
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.

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.

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, (130 a.a.) is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q14005)