



*Recombinant Human IL-16*  
(Interleukin-16)

*Catalog Number: 100-144*  
*Accession Number: AAC12732*

*Specifications and Uses:*

**Alternate Names:** Lymphocyte Chemoattractant Factor (LCF)

**Description:**

Interleukin 16 (IL-16) is produced primarily by CD4+ and CD8+ T cells and acts as a chemo-attractant for lymphocytes, monocytes, eosinophils, dendritic cells and Langerhans cells. Additionally, IL-16 has been reported to upregulate IL-2 receptor (CD25), induce progression of cells to the G1 phase and suppress HIV & SIV replication. Recombinant human IL-16 is a non-glycosylated protein, containing 130 amino acids, with a molecular weight of 13.5 kDa.

**Source:** *E.coli*

**Physical Appearance:** Sterile filtered white lyophilized (freeze-dried) powder.

**Formulation and Stability:**

Recombinant human IL-16 is lyophilized at 1 mg/mL in 10 mM Na<sub>2</sub>PO<sub>4</sub>, pH 7.5.

Although lyophilized IL-16 is stable at room temperature for 3 weeks, it should be stored desiccated below -18°C. Upon reconstitution, IL-16 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended

**Reconstitution:**

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

**Protein Content and Purity (typically ≥ 95%) determined by:**

Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

**Endotoxin Level:**

Measured by kinetic LAL analysis and is typically ≤ 1 EU/μg protein.

**Biological Activity:**

The activity is determined by its ability to chemoattract human T lymphocytes using a concentration range of 10-100 ng/mL.

**AA Sequence:**

MPDLNSSTDS AASASAASDV SVESTAEATV CTVTLEKMSA GLGFSLEGGK GSLHGDKPLT INRIFKGAAS  
EQSETVQPGD EILQLGGTAM QGLTRFEAWN IIKALPDGPV TIVIRRKSLQ SKETTAAGDS

**THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!**

Gentaur Molecular Products  
Voortstraat 49  
1910 Kampenhout, Belgium