

Growth Factor Data Sheet

GoldBio growth factors are manufactured for **RESEARCH USE ONLY** and cannot be sold for human consumption!

Human interleukin-16 (IL16) is also called lymphocyte chemoattractant factor (LCF) and it has three isoforms, which are cleaved from preinterleukin16. IL16 is mostly secreted by lymphocytes, epithelial cells, eosinophils and CD8+ T-cells. IL16 signals through the CD4 receptor, and has many functions, which include the induction of the IL2R α on T-cells, the suppression of human immunodeficiency virus (HIV) replication, the inhibition of T-cell antigen receptor/CD3 mediated T-cell stimulation in mixed lymphocyte reactions, and many more. Furthermore, recombinant human IL16 (121 a.a.) contains 121 amino acid residues and shares 85% amino acid sequence identity with murine IL16.

Catalog Number	1110-16
Product Name	IL16, Human (121 a.a.) Recombinant Human Interleukin-16, 121 a.a. IL16 Interleukin 16 Lymphocyte Chemoattractant Factor (LCF)
Source	<i>Escherichia coli</i>
MW	~12.4 kDa (121 amino acids)
Sequence	SAASASAASD VSVESTAEAT VCTVTLEKMS AGLGFSLEGG KGSLHGDKPL TINRIFKGAA SEQSETVQPG DEILQLGGTA MQGLTRFEAW NIKALPDGP VTIVIRKSL QSKETTAAGD S
Accession Number	Q14005
Purity	>95% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human peripheral T Lymphocytes is in a concentration range of 50-500 ng/ml.
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
Reconstitution	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.