

GFH144 Recombinant Human IL-16

Description

Interleukin-16 (IL-16) is produced by CD4+ and CD8+ T cells and functions as a chemoattractant for lymphocytes, monocytes, eosinophils, dendritic cells, and Langerhans cells. Additionally, IL-16 upregulates the expression of the interleukin-2 receptor (CD25), modulates T lymphocyte growth, and suppresses the replication of the human immunodeficiency virus (HIV) and simian immunodeficiency viruses (SIV).

Length	130 aa
Molecular Weight	13.4 kDa
Source	E. coli
Accession Number	Q14005
Purity	≥95% determined by reducing and non-reducing SDS-PAGE

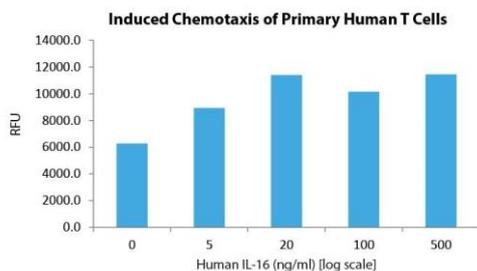
Specifications

Alternative Names	Interleukin-16, interleukin 16, IL16, IL 16, lymphocyte chemoattractant factor, LCF, NIL16
Biological Activity	Human IL-16 is fully biologically active when compared to standard. The activity is determined by the ability to induce chemotaxis of primary human T cells by Human IL-16.
Endotoxin Level	≤1.00 EU/μg as measured by kinetic LAL
Formulation	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5
AA Sequence	MPDLNSSTDS AASASAASDV SVESTAEATV CTVTLEKMSA GLGFSLEGGK GSLHGDKPLT INRIFKGAAS EQSETVQPGD EILQLGGTAM QGLTRFEAWN IIKALPDGPV TIVIRRKSLQ SKETTAAGDS

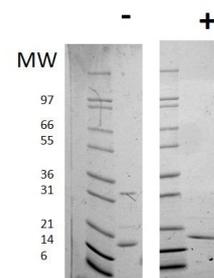
Preparation and Storage

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 0.1 mg/ml, which can be further diluted into other aqueous solutions.
Stability and Storage	12 months from date of receipt when stored at -20°C to -80°C as supplied. 1 month when stored at 4°C after reconstituting as directed. 3 months when stored at -20°C to -80°C after reconstituting as directed.

Data



Induced chemotaxis of primary human T cells. A significant increase in migration over basal levels was reported in response to Human IL-16 starting at 5 ng/ml.



Non-reducing (-) and reducing (+) conditions in a 4 - 20% Tris-Glycine gel stained with Coomassie Blue. 1 μg of protein was loaded in each lane. Human IL-16 has a predicted Mw of 13.4 kDa.