

Recombinant Human Interleukin-16, 130 a.a.

#R00055

Size: 10 µg/100 µg/500 µg

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 3 months, -20 to -70 °C under sterile conditions after reconstitution.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

Human Interleukin-16 (IL-16) is also called lymphocyte chemoattractant factor (LCF) and it has three isoforms which are cleaved from pre-Interleukin-16. IL-16 is mostly secreted by lymphocytes, epithelial cells, eosinophils, and CD8+ T cells. It has many functions including induction of the IL-2R α on T cells, suppression of human immunodeficiency virus (HIV) replication, inhibition of T-cell antigen receptor/CD3 mediated T-cell stimulation in mixed lymphocyte reactions and so on. It signals through CD4 receptor. Furthermore, recombinant human IL-16 (130 a.a.) contains 130 amino acid residues and it shares 85 % a.a. sequence identity with murine IL-16.

AA Sequence

MPDLNSSTD SAASASAASDVSVSTAEATVCTVTLEK
MSAGLGFSLEGGKGS LHGDKPLTINRIFKGAASEQSE
TVQPGDEILQLGGTAMQGLTRFEAWNIIKALPDGPVTI

VIRRKSLQSKETTAAGDS

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at $\leq$ -20 °C. Further dilutions should be made in appropriate buffered solutions.

Product Specification

Synonyms	Interleukin-16 isoform 2, Lymphocyte chemoattractant factor, LCF
Accession	Q14005
GeneID	3603
Species	Human
Source	Escherichia coli.
Molecular Weight	Approximately 13.4 kDa, a single non-glycosylated polypeptide chain containing 130amino acids.
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 CD4+ T Lymphocytes is

in a concentration range of
1.0-100 ng/ml.

**Physical
Appearance** Sterile Filtered White lyophilized
(freeze-dried) powder.

Formulation Lyophilized from a 0.2 µm
filtered concentrated solution in
20 mM Tris, 150 mM NaCl, pH
7.0.

Endotoxin Less than 1 EU/µg of rHuIL-16,
130 a.a. as determined by LAL
method.
