

Recombinant Human IL-16, 130 a.a.

Information

Gene ID	3603
Accession #	Q14005
Alternate Names	Interleukin-16 isoform 2, Lymphocyte chemoattractant factor, LCF
Source	<i>Escherichia coli</i> .
M.Wt	Approximately 13.4 kDa, a single non-glycosylated polypeptide chain containing 130 amino acids.
AA Sequence	MPDLNSSTD S AASASAASDV SVESTAEATV CTVTLEKMSA GLGFSLEGGK GSLHGD KPLT INRIFKGAAS EQSETVQPGD EILQLGGTAM QGLTRFEAWN I IKALPDGPV TIVIRRKSLQ SKETTAAGDS
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
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.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM Tris, 150 mM NaCl, pH 7.0.
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 ≤ -20°C. Further dilutions should be made in appropriate buffered solutions.
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.
Shipping Condition	Gel pack.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Components and Storage

Components	10 µg	100 µg	500 µg
Recombinant Human IL-16, 130 a.a.	10 µg	100 µg	500 µg

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Quality Control

Purity	>95% by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/μg of rHuIL-16, 130 a.a. as determined by LAL method.

Description

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.

Reference

1. Baier M, Bannert N, Werner A, et al. 1997. Proc Natl Acad Sci U S A, 94: 5273-7.
2. Zhang Y, Center DM, Wu DM, et al. 1998. J Biol Chem, 273: 1144-9.
3. Cruikshank WW, Kornfeld H, Center DM. 2000. J Leukoc Biol, 67: 757-66.
4. Cruikshank WW, Center DM, Nisar N, et al. 1994. Proc Natl Acad Sci U S A, 91: 5109-13.
5. Mathy NL, Scheuer W, Lanzendorfer M, et al. 2000. Immunology, 100: 63-9.

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