

## Recombinant Mouse IL-16

### Information

<b>Gene ID</b>	16170
<b>Accession #</b>	O54824
<b>Alternate Names</b>	Lymphocyte chemoattractant factor , LCF
<b>Source</b>	<i>Escherichia coli</i> .
<b>M.Wt</b>	Approximately 12.2 kDa, a single non-glycosylated polypeptide chain containing 118 amino acids.
<b>AA Sequence</b>	SAASASAASD ISVESKEATV CTVTLEKTS A GLGFSLEG GK GSLHGDKPLT INRIFKGTEQ GEMVQPGDEI LQLAGTAVQG LTRFEAWNVI KALPDGPVTI VIRRTSLQCK QTTASADS
<b>Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Stability &amp; Storage</b>	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.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
<b>Reconstitution</b>	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.
<b>Biological Activity</b>	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 1.0-100 ng/ml.
<b>Shipping Condition</b>	Gel pack.
<b>Handling</b>	Centrifuge the vial prior to opening.
<b>Usage</b>	For Research Use Only! Not to be used in humans.

### Components and Storage

Components	10 µg	100 µg	500 µg
Recombinant Mouse IL-16	10 µg	100 µg	500 µg

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.

## Quality Control

Purity	> 98 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/μg of rMuIL-16 as determined by LAL method.

## Description

Interleukin-16 (IL-16) is also called lymphocyte chemoattractant factor (LCF) and it is mostly secreted by lymphocytes, epithelial cells, eosinophils, and CD8+ T cells. It has many functions including induction of the IL-2R $\alpha$  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 murine interleukin-16 contains 118 amino acid residues and it shares about 85 % a.a. sequence identity with different isoforms of human 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.

**APExBIO Technology**

**[www.apexbt.com](http://www.apexbt.com)**

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: [info@apexbt.com](mailto:info@apexbt.com)