

Recombinant Rhesus Macaque Interleukin-16

Information

Gene ID	574100
Accession #	O62675
Alternate Names	Interleukin-16, Lymphocyte Chemoattractant Factor, LCF
Source	Escherichia coli.
M.Wt	Approximately 12.5 kDa, a single non-glycosylated polypeptide chain containing 121 amino acids.
AA Sequence	SAASASAASD VSVESSAEAT VYTVTLEKMS AGLGFSLEGG KGSLHGDKPL TINRIFKGAA SEQSETIQPG DEILQLAGTA MQGLTRFEAW NIIKALPDGP VTIVIRRKSL QPKETTAAD S
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 PBS, pH 7.4.
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 peripheral 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	10µg	100µg	500µg
Recombinant Rhesus Macaque Interleukin-16	10µg	100µg	500µg

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- 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 rRhIL-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 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 rhesus macaque interleukin-16 contains 121 amino acid residues and it shares 85 % ~ 95 % a.a. sequence identity with human and 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.

APExBIO Technology

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