Recombinant Rhesus IL16 protein

Cat. No. IL16-543R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rhesus IL16 protein was expressed in Escherichia coli.
Species	Rhesus macaque
Source	E.coli
ProteinLength	121
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-2Rα 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.
Form	Lyophilized from a 0.2μm filtered concentrated solution in PBS, pH 7.4.
Bio-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.
Molecular Mass	Approximately 12.5 kDa, a single non-glycosylated polypeptide chain containing 121 amino acids.

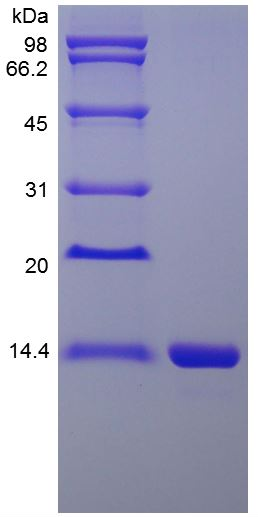
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AA Sequence	SAASASAASDVSVESSAEATVYTVTLEKMSAGLGFSLEGGKGSLHGDKPLTINRIFK GAASEQSETIQPGDEILQLAGTAMQGLTRFEAWNIIKALPDGPVTIVIRRKSLQPKETT AAADS
Endotoxin	Less than 1 EU/μg of rRhIL-16 as determined by LAL method.
Purity	>98% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
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 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	IL16
Official Symbol	IL16
Synonyms	Interleukin-16, Lymphocyte Chemoattractant Factor, LCF
Gene ID	574100
mRNA Refseq	NM_001374447.1

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Protein Refseq	NP_001361376.1
UniProt ID	O62675
SDS-PAGE of IL16-543R	

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