

## Recombinant Mouse Il16 protein

Cat. No. II16-548M Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Il16 protein was expressed in Escherichia coli.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>ProteinLength</b>	118
<b>Description</b>	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.
<b>Form</b>	Lyophilized from a 0.2 $\mu$ m filtered concentrated solution in PBS, pH 7.4.
<b>Bio-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>Molecular Mass</b>	Approximately 12.2 kDa, a single non-glycosylated polypeptide chain containing 118 amino acids.

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<b>AA Sequence</b>	SAASASAASDISVESKEATVCTVTLEKTSAGLGFSLEGGKGS LHGDKPLTINRIFKGT EQGEMVQPGDEILQLAGTAVQGLTRFEAWNVIKALPDGPVTIVIRRTSLQCKQTAS ADS
<b>Endotoxin</b>	Less than 1 EU/g of rMuIL-16 as determined by LAL method.
<b>Purity</b>	>98% by SDS-PAGE and HPLC analysis.
<b>Storage</b>	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.
<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 centigrade. Further dilutions should be made in appropriate buffered solutions.

## GENE INFORMATION

<b>Gene Name</b>	IL16
<b>Official Symbol</b>	IL16
<b>Synonyms</b>	IL16; interleukin 16; pro-interleukin-16; mKIAA4048; KIAA4048;
<b>Gene ID</b>	16170
<b>mRNA Refseq</b>	NM_010551

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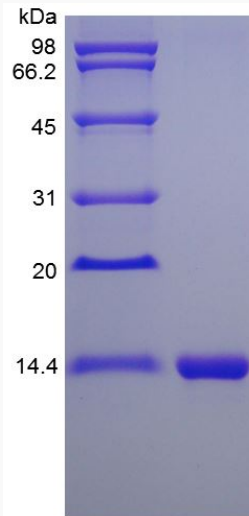
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Protein Refseq NP\_034681

UniProt ID O54824

SDS-PAGE of II16-548M



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