

Flogen[®] Recombinant Murine Interleukin-16

(rMuIL-16)

Catalog Number:	PGR0121-016
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 12.2 kDa, a single non-glycosylated polypeptide chain containing 118 amino acids.
Quantity:	2µg/10µg/1000µg
AA Sequence:	SAASASAASD ISVESKEATV CTVTLEKTSA GLGFSLEGGK GSLHGDKPLT INRIFKGTEQ GEMVQPGDEI LQLAGTAVQG LTRFEAWNVI KALPDGPVTI VIRRTSLQCK QTTASADS
Purity:	> 98 % by SDS-PAGE and HPLC analyses.
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.
Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
Endotoxin:	Less than 1 EU/µg of rMuIL-16 as determined by LAL method.
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.
Storage:	This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. Avoid repeated freeze/thaw cycles.
Usage:	This material is for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.

Murine Interleukin-16

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 murine interleukin-16 contains 118 amino acid residues and it shares about 85 % a.a. sequence identity with different isoforms of human IL-16.