

Recombinant Mouse Interleukin-16 (rm IL-16)

Mouse **Interleukin-16** is a pleiotropic cytokine that functions as a chemoattractant, a modulator of T cell activation and as an inhibitor of HIV replication. The signaling process of IL-16 is mediated by CD4. The product of this gene undergoes proteolytic processing, which is found to yield two functional proteins. IL-16 functions exclusively attributed to the secreted C-terminal peptide, while the N-terminal product may play a role in cell cycle control. Caspase 3 is reported to be involved in the proteolytic processing of this protein. Two transcript variants encoding different isoforms have been found for this gene. IL-16 stimulates a migratory response in CD4+ lymphocytes, monocytes, and eosinophils. Also induces T-lymphocyte expression of Interleukin 2 receptor. Ligand for CD4.

Recombinant mouse IL-16 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 127 amino acids and having a molecular mass of 13.2 kDa.

Synonyms : Lymphocyte Chemoattractant Factor (LCF)

Source: *Escherichia coli*

AA Sequence: MHDLNSSTDS AASASAASDI SVESKEATVC TVTLEKTSAG LGFSLEGGKG
SLHGDKPLTI NRIFKGDRTG EMVQPGDEIL QLAGTAVQGL TRFEAWNVIK
ALPDGPVTIV IRRSLQCKQ TTASADS.

Formulation: Lyophilisate from a 0.22 µm filtered carrier free solution in 25 mM sodium phosphate, pH 7.0 + 200 mM NaCl.

Reconstitution: Reconstitute in sterile endotoxin free water not less than 100 µg/ml

Stability: The lyophilized protein is stable for at least 2 years at -20°C. Reconstituted rm IL-16 is stable for at least 3 months when stored in concentrated working aliquots (100 ng/µl or higher) at -20°C. Avoid repeated freeze/thaw cycles.

Biological Activity: biologically active

Purity: 90% (verified by SDS-PAGE / silver stain)

Endotoxicity: The endotoxin level is less than 0.1 ng per µg (1EU/µg) determined by LAL method

Order N°: rm IL-16 +Size
available sizes: 2 µg, 10 µg, 50 µg

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