

Recombinant Mouse Interleukin-16 (rm IL-16)

Synonyms: LCF, Lymphocyte Chemoattractant Factor, prIL-16

Introduction: IL-16 is a pleiotropic cytokine that functions as a chemoattractant, a modulator of T-cell activation and 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 and is a ligand for CD4.

Description: 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. rm IL-16 is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*.

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: lyophilized from a 0.22 µm filtered solution in 25 mM sodium phosphate, pH 7.0 + 200 mM NaCl. The aliquots of 1µg and 2µg contain Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized rm IL-16 in sterile H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized rm IL-16 although stable at room temperature for 3 weeks, should be stored desiccated below -18° C . Upon reconstitution rm IL-16 should be stored at 4° C between 2-7 days and for future use below -18° C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity: Greater than 90.0% as determined by SDS-PAGE.

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

Amino acid sequence: MHDLNSSTDS AASASAASDI SVESKEATVC TVTLEKTSAG LGFSLEGGKG
SLHGDKPLTI NRIFKGDRTG EMVQPGDEIL QLAGTAVQGL TRFEAWNVIK ALPDGPVTIV IRRSLQCKQ
TTASADS

This material is offered for **research only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	2 µg	Cat.N°	12340162
<i>medium</i>	10 µg	Cat.N°	12340163
<i>large</i>	50 µg	Cat.N°	12340165
<i>x-large</i>	250 µg	Cat.N°	12340167
<i>xx-large</i>	1000 µg	Cat.N°	12340168

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