



Recombinant Mouse IL-16
(Interleukin-16)

Catalog Number: 200-49
Accession Number: O54824

Specifications and Uses:

Alternate Names: Lymphocyte Chemoattractant Factor (LCF)

Description:

Interleukin 16 (IL-16) is produced primarily by CD4+ and CD8+ T cells and acts as a chemo-attractant for lymphocytes, monocytes, eosinophils, dendritic cells and Langerhans cells. Additionally, IL-16 has been reported to upregulate IL-2 receptor (CD25), induce progression of cells to the G1 phase and suppress HIV & SIV replication. Recombinant mouse IL-16 is a non-glycosylated protein, containing 127 amino acids, with a molecular weight of 13.2 kDa.

Source: *E.coli*

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

Formulation and Stability:

Recombinant mouse IL-16 is lyophilized at a concentration of 1 mg/mL in 10 mM Na₂PO₄, pH 7.5. Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

Protein Content and Purity (typically ≥ 95%) determined by:

HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

Endotoxin Level:

Measured by kinetic LAL analysis and is typically ≤ 1 EU/μg protein.

Biological Activity:

The activity is determined by the ability to chemoattract primary human T cells and is typically less than 200 ng/mL.

AA Sequence:

MHDLNSSTDS AASASAASDI SVESKEATVC TVTLEKTSAG LGFSLEGGKG SLHGDKPLTI NRIFKGDRTG
EMVQPGDEIL QLAGTAVQGL TRFEAWNVIK ALPDGPVTIV IRRSLQCKQ TTASADS

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!

Gentaur Molecular Products
Voortstraat 49
1910 Kampenhout, Belgium