



Interleukin-16, (121 a.a.), human recombinant (rHuIL-16-121aa)

Catalog No: 97495
Lot No: XXXXX
Source: *E. coli*
Synonyms: IL16, Interleukin-16, LCF, Lymphocyte Chemoattractant Factor, prIL-16, IL-16, FLJ16806, FLJ42735, FLJ44234, HsT19289

Background

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, ligand for cd4.

Description

Interleukin-16 human recombinant produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 121 amino acids and having a molecular mass of 12.4 kDa. IL-16 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

IL-16 was lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.

Solubility

It is recommended to reconstitute the lyophilized Interleukin-16 in sterile 18 MΩ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized Interleukin-16, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL16 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 97.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis SDS-PAGE.

Amino Acid Sequence

SAASASAASD VSVESTAEAT VCTVTLEKMS AGLGFSLEGG KGSLLHGDKPL TINRIFKGAA SEQSETVQPG DEILQLGGTA
MQGLTRFEAW NIIKALPDGP VTIVIRKSL QSKETTAAGD S

Activity

Fully biologically active when compared to standard. Determined by its ability to chemoattract human CD4+ T-Lymphocytes using a concentration range of 50.0 - 100.0 ng/ml.

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