



Interleukin-16, His Tag, human recombinant (rHuIL-16-His)

Catalog No: 97078
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 150 amino acids (502-631) and having a molecular mass of 15.5 kDa. IL-16 is fused to a 20 amino acids His Tag at N-terminus. IL-16 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered solution.

Formulation

IL-16 His tag protein (1 mg/ml) contains 20 mM Tris-HCl pH 8, 1 mM PMSF and 10% glycerol.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

Purity

Greater than 95.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis SDS-PAGE.

Amino Acid Sequence

MGSSHHHHHH SSSLVPRGSH MPDLNSSTDS AASASAASDV SVESTAEATV CTVTLEKMSA GLGFSLEGGK GSLHGDKPLT
INRIFKGAAS EQSETVQPGD EILQLGGTAM QGLTRFEAWN IIKALPDGPV TIVIRRKSLQ SKETTAAGDS

Usage

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