Recombinant Human Interleukin 16, His-tagged

Cat. No. IL16-46H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant I Human nterleukin-16 produced in*E.Coli*is a single, non-glycosylated polypeptide chain containing 150 amino acids and having a molecular mass of 15 kDa. The IL-16 is fused to His-Tagged at N-Terminus. The IL-16 is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
Description	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.
Amino Acid Sequence	GSSHHHHHH SSGLVPRGSH MPDLNSSTDS AASASAASDV SVESTAEATV CTVTLEKMSAGLGFSLEGGK GSLHGDKPLT INRIFKGAAS EQSETVQPGD EILQLGGTAM QGLTRFEAWN IIKALPDGPV TIVIRRKSLQ SKETTAAGDS.

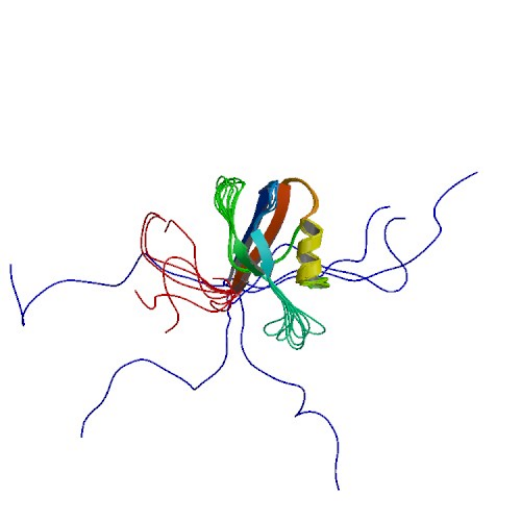
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Physical Appearance	Sterile Filtered solution at a concentration of 1mg/ml.
Purity	Greater than 95.0% as determined by:(a) Analysis by RP-HPLC. (b) Analysis SDS-PAGE.
Formulation	IL-16 His tag protein contains20mM Tris pH-8 1mM DTT & 10%glycerol.
Storage	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.

GENE INFORMATION

Gene Name	IL16 interleukin 16 (lymphocyte chemoattractant factor) [Homo sapiens]
Synonyms	IL16; interleukin 16 (lymphocyte chemoattractant factor); LCF; IL-16; prIL-16; FLJ16806; FLJ42735; FLJ44234; HsT19289;OTTHUMP00000190849; OTTHUMP00000190850; lymphocyte chemoattractant factor; HsT19289; Pro-interleukin-16; interleukin 16; lymphocyte chemoattractant factor
Gene ID	3603
mRNA Refseq	NM_004513
Protein Refseq	NP_004504
MIM	603035
UniProt ID	Q14005
Chromosome Location	15q26.3

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Function	cytokine activity; protein binding
PDB rendering based on 1i16.	

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