

Recombinant Human IL-16 Protein

Catalog No.: RP00038

Sequence Information

Species **Gene ID**
Human 3603

Swiss Prot **Tags**
Q14005 C-His

Synonyms

IL16,LCF,NIL16,PRIL16,prIL-16

Product Information

Source **Purification**
E. coli ≥ 95 % as
determined by
SDS-PAGE.

Calculated MW **Observed MW**
14.09 kDa 20 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of 20mM Tris, 150mM NaCl, pH 8.0. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1–0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

The protein is a pleiotropic cytokine that functions as a chemoattractant, a modulator of T cell activation, and an inhibitor of HIV replication. The biological activities ascribed to IL-16 are reported to be dependent on the cell surface expression of CD4, suggesting that IL-16 is a CD4 ligand. Besides its chemotactic properties, IL-16 has also been shown to suppress HIV-1 replication in vitro. Recombinant *E. coli*-derived IL-16 produced at is present mostly as a monomer, exhibits chemotactic activity for lymphocytes at high concentrations, lacks chemotactic activities for monocytes, and binds the extracellular domain of CD4 with low affinity.

Basic Information

Description

Recombinant Human IL-16 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Pro2-Ser130) of human IL-16 (Accession #NP_757366.2) fused with a 6×His tag at the C-terminus.

Activity

Measured by its binding ability in a functional ELISA. Immobilized Recombinant human IL16 at 5 μg/mL (100 μL/well) can bind Recombinant human CD4 with a linear range of 0.2–1 μg/mL.

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

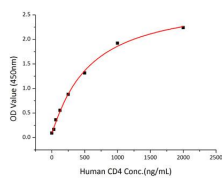
Contact

☎ | 400-999-6126

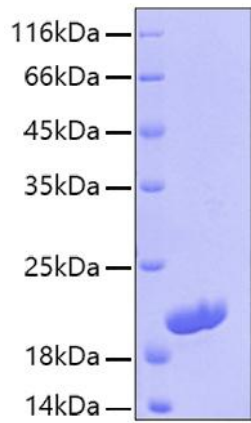
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Validation Data



Immobilized Recombinant human IL16 at 5 $\mu\text{g/mL}$ (100 $\mu\text{L/well}$) can bind Recombinant human CD4 with a linear range of 0.2–1 $\mu\text{g/mL}$.



Recombinant Human IL-16 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.