Recombinant Human IL-16 Protein

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Catalog No.: RP00038 Recombinant

Sequence Information

Species Gene ID **Swiss Prot** Human 3603 014005

Tags

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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

400-999-6126 6 cn.market@abclonal.com.cn

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 activites 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.

Bio-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

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

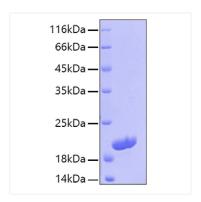
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

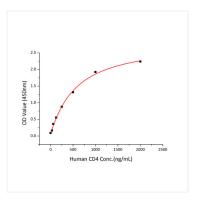
Operational Notes

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

Validation Data



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



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