

For Research Use Only

Recombinant Human IL-16 protein (rFc Tag)(HPLC verified)



Catalog Number: Eg4831

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE
 >90 %, SEC-HPLC

Tag:
N-rFc

Technical Specifications

Purity:
>90 %, SDS-PAGE
 >90 %, SEC-HPLC

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Human IL-16 protein Met1-Ser130 (Accession# Q14005-1) with a rabbit IgG Fc tag at the N-terminus

GeneID:
3603

Accession:
Q14005-1

Predicted Molecular Mass:
39.4 kDa

SDS-PAGE:
45-55 kDa, reducing (R) condition

Formulation:
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

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

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

IL-16 is a pleiotropic cytokine that functions as a chemoattractant, a modulator of T cell activation, and an inhibitor of HIV replication. It is mainly produced by T lymphocytes but also by other immune cells, neuronal cells, fibroblasts and epithelial cells. The signaling process of this cytokine is mediated by CD4. IL-16 induces chemotaxis of CD4+ cells such as lymphocytes, eosinophils, and dendritic cells by ligating CD4 directly at a site distinct from other ligands. Among its multiple functions, IL-16 is a T cell chemoattractant involved in T helper cell inflammatory responses and the regulation of both T cell growth, and responsiveness to regulatory cytokines. The cytokine function is exclusively attributed to the secreted C-terminal peptide, while the N-terminal product may play a role in cell cycle control.

References

1. Cruikshank WW, et al. (2000). J Leukoc Biol. 67(6):757-66.
2. Sciaky D, et al. (2000). J Immunol. 164(7):3806-14.
3. Gao LB, et al. (2009). Carcinogenesis. 30(2):295-9.

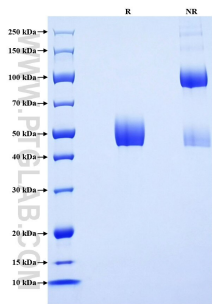
Synonyms

For technical support and original validation data for this product please contact

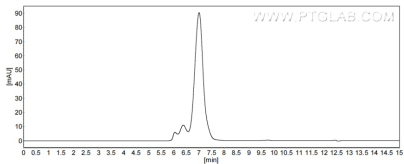
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Selected Validation Data



Purity of Recombinant Human IL-16 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.



The purity of Human IL-16 was greater than 90% as determined by SEC-HPLC.