Datasheet for ABIN6700045

IL16 Protein

2 Images

Go to Product page

Overview

Quantity:	100 µg
Target:	IL16
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	SDS-PAGE (SDS)

Product Details

Purpose:	Human Interleukin-16 Recombinant Protein
Purification:	Interleukin-16 purity was determined to be greater than 95% as determined by analysis by UV-Spectroscopy at 280nm and by reducing and non-reducing SDS-pAGE.
Purity:	95,00%
Endotoxin Level:	Measured by LAL is typically ≤ 1 EU/µg protein.
Biological Activity Comment:	The activity is determined by its ability to chemoattract human T lymphocytes using a concentration range of 10-100 ng/mL.

Target Details

Target:	IL16
Alternative Name:	IL16 (IL16 Products)
Background:	Synonyms: Lymphocyte Chemoattractant Factor (LCF) Background: Interleukin 16 (IL-16) is produced primarily by CD4+ and CD8+ T cells and acts as

Target Details

	a chemo-attractant for lymphocytes, monocytes, eosinophils, dendritic cells and Langerhans cells. Additionally, IL-16 has been reported to upregulate IL-2 receptor (CD25), induce progression of cells to the G1 phase and suppress HIV & SIV replication. Recombinant human IL-16 is a non-glycosylated protein, containing130 amino acids, with a molecular weight of 13.5 kDa.
UniProt:	Q14005-1

Application Details

Application Notes:	Other: User Optimized Application_Note: Interleukin-16 Recombinant Protein has been tested by SDS-PAGE and biological activity and is suitable as a control for polyclonal or monoclonal anti-Interleukin-16 in immunological assays.
Comment:	Suggested_Applications: Cellular Assay Other_Performance_Data:
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitution_Buffer: Restore with deionized water (or equivalent) Reconstitution_Volume: 100 µL
Buffer:	Buffer: 0.01 M Sodium Phosphate, pH 7.5 Stabilizer: None
Preservative:	Without preservative
Storage:	4 °C,-20 °C
Storage Comment:	Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.
Expiry Date:	6 months

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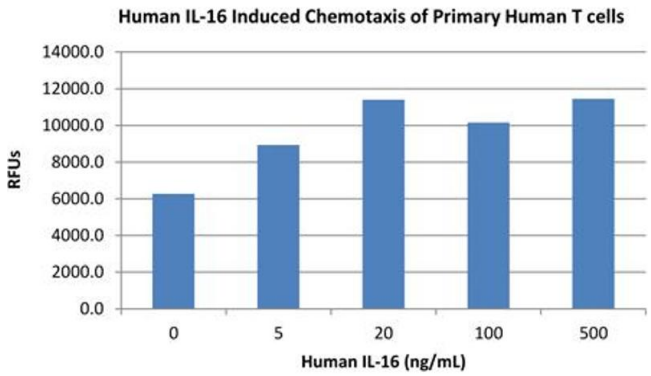
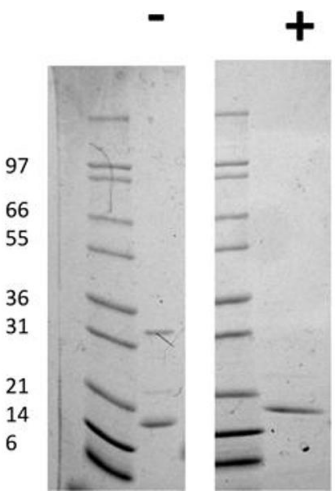


SDS-PAGE

Image 1. SDS-PAGE of Human Interleukin-16 Recombinant Protein Bioactivity of Human Interleukin-16 Recombinant Protein. Human T cells were allowed to migrate to Human IL-16 at (0, 5, 20, 100 and 500 ng/mL). After 4 hours, cells that migrated were counted using a luminescent substrate and displayed on the bar graph above. A significant increase in migration over basal levels was seen in response to Human IL-16 starting at 5 ng/mL.



SDS-PAGE

Image 2. SDS-PAGE of Human Interleukin-16 Recombinant Protein SDS-PAGE of Human Interleukin-16 Recombinant Protein. Lane 1: Molecular weight marker. Lane 2: 1 µg Human IL-16 in non-reducing conditions . Lane 3: Molecular weight marker. Lane 4: 1 µg Human IL-16 in reducing conditions (+). Human IL-16 has a predicted MW of 12.5 kDa.