

Datasheet for ABIN2667464 **IL16 Protein (AA 10-130)**

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Overview

Quantity:	10 µg
Target:	IL16
Protein Characteristics:	AA 10-130
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Flow Cytometry (FACS)

Product Details

Purity:	>98 % , as determined by Coomassie stained SDS-PAGE and HPLC analysis.
Endotoxin Level:	Less than 0.1 ng per µg of protein.

Target Details

Target:	IL16
Alternative Name:	IL-16 (IL16 Products)
Background:	IL-16 is a proinflammatory cytokine synthesized as a 631-amino acid precursor protein (pro-IL-16). The pro-IL-16 is expressed at high level in T cells. After cell activation via the T cell receptor, the C-terminal cytokine domain (121 amino acids) can be released from the N-terminal prodomain by caspase-3 and become biological active. Self-aggregation into homotetramer is required for its biological activities. IL-16 is a chemoattractant for CD4+ T cells, monocytes, and

Target Details

eosinophils. IL-16 also induces the expression of CD25 and activates CD4+ T cells synergically with IL-2 or IL-15. IL-16 can also induce IL-1, IL-6 and TNF- α production in monocytes. It has been shown tha IL-16 can inhibit HIV-1 replication in vitro by repressing the transcription of the HIV-1 long terminal repeat. The pro-IL-16 has been identified as a T lymphocyte cell cycle growth suppressor. In primary T cells, nuclear presence of pro-IL-16 results in a resting state. Pro-IL-16 can function as a scadffold protein which can interact with GA-binding protein β , HDAC3, and heat shock protein 70.

Molecular Weight:	The 121 amino acid recombinant protein has a predicted molecular mass of approximately 12.4 kDa. The predicted N-terminal amino acid is Ser.
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Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Biological activity: Determined by its ability to chemoattract human peripheral blood lymphocytes using a concentration range of 50.0 - 1000.0 ng/ml.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	For maximum results, quick spin vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/mL. Do not vortex. It is recommended to further dilute in a buffer, such as 5 % Trehalose, and store working aliquots at -20 °C to -80 °C.
Buffer:	Lyophilized, carrier-free.
Handling Advice:	Avoid repeated freeze/thaw cycles.
Storage:	-20 °C
Storage Comment:	Unopened vial can be stored at -20°C or -70°C.