

## Product datasheet

# Recombinant human IL16 protein ab9564

### Overview

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<b>Product name</b>	Recombinant human IL16 protein
<b>Protein length</b>	Protein fragment

### Description

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<b>Nature</b>	Recombinant
<b>Source</b>	Escherichia coli

### Amino Acid Sequence

<b>Accession</b>	<a href="#">Q14005</a>
<b>Species</b>	Human
<b>Sequence</b>	PDLNSSTDSAASASAASDVSVESTAEATVCTVTLEKMSAGLGFSLEGGKG SLHGDKPLTINRIFKGAASEQSETVQPGDEILQLGGTAMQGLTRFEAWNI IKALPDGPVTMIRRKSLQSKETTAAGDS

### Specifications

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Our [Abpromise guarantee](#) covers the use of **ab9564** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<b>Applications</b>	SDS-PAGE Functional Studies
<b>Endotoxin level</b>	< 0.100 Eu/μg
<b>Form</b>	Lyophilised
<b>Additional notes</b>	The biological activity of this product is determined by its ability to chemoattract human CD4 positive T lymphocytes using a concentration range of 1.0-100 ng/ml.

### Preparation and Storage

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<b>Stability and Storage</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle. pH: 5.50 Constituents: 0.147% Sodium citrate, 0.0077% DTT
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This product is an active protein and may elicit a biological response in vivo, handle with caution.

## Reconstitution

Reconstitute with distilled water to achieve desired concentration.

## General Info

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### Function

Interleukin-16 stimulates a migratory response in CD4+ lymphocytes, monocytes, and eosinophils. Primes CD4+ T-cells for IL-2 and IL-15 responsiveness. Also induces T-lymphocyte expression of interleukin 2 receptor. Ligand for CD4.

Isoform 1 may act as a scaffolding protein that anchors ion channels in the membrane.

Isoform 3 is involved in cell cycle progression in T-cells. Appears to be involved in transcriptional regulation of SKP2 and is probably part of a transcriptional repression complex on the core promoter of the SKP2 gene. May act as a scaffold for GABPB1 (the DNA-binding subunit the GABP transcription factor complex) and HDAC3 thus maintaining transcriptional repression and blocking cell cycle progression in resting T-cells.

### Tissue specificity

Isoform 3 is expressed in hemopoietic tissues, such as resting T-cells, but is undetectable during active T cell proliferation.

### Sequence similarities

Contains 4 PDZ (DHR) domains.

### Post-translational modifications

Isoform 3 is synthesized as a chemo-attractant inactive precursor in hemopoietic tissues and is proteolytically cleaved by caspase-3 to yield IL-16.

### Cellular localization

Cytoplasm; Cytoplasm. Nucleus and Secreted.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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