

Product datasheet

Recombinant human IL16 protein ab9564

Overview

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|-----------------------|--------------------------------|
| Product name | Recombinant human IL16 protein |
| Protein length | Protein fragment |

Description

| | |
|---------------|------------------|
| Nature | Recombinant |
| Source | Escherichia coli |

Amino Acid Sequence

| | |
|------------------|--|
| Accession | Q14005 |
| Species | Human |
| Sequence | PDLNSSTDSAASASAASDVSVESTAEATVCTVTLEKMSAGLGFSLEGGKG SLHGDKPLTINRIFKGAASEQSETVQPGDEILQLGGTAMQGLTRFEAWNI IKALPDGPVTMIRRKSLQSKETTAAGDS |

Specifications

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.

| | |
|-------------------------|---|
| Applications | SDS-PAGE Functional Studies |
| Endotoxin level | < 0.100 Eu/μg |
| Form | Lyophilised |
| Additional notes | 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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|------------------------------|---|
| Stability and Storage | 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. Preservative: None Constituents: 5mM Sodium citrate, 0.5mM DTT, pH 5.5 |
|------------------------------|---|

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

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.

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