

Product datasheet

Recombinant human IL-16 protein ab84082

1 Image

Description

Product name	Recombinant human IL-16 protein
Biological activity	Biological Activity: Determined by its ability to chemoattract Human CD4+ T-Lymphocytes using a concentration range of 50.0-100.0 ng/ml.
Purity	> 95 % SDS-PAGE. Purity is greater than 98% by SDS-PAGE gel and HPLC analyses.
Expression system	Escherichia coli
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	SAASASAASD VSVETAET VCTVTLEKMS AGLGSLEGG KGSLHGDKPL TINRIFKAA SEQSETVQPG DEILQLGGTA MQGLTRFEAW NIIKALPDGP VTIIRRKSL QSKETTAAGD S

Specifications

Our **Abpromise guarantee** covers the use of **ab84082** in the following tested applications.

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

Applications	Functional Studies SDS-PAGE
Form	Lyophilized
Additional notes	Endotoxin level is less than 0.1 ng per µg (1EU/µg).

Preparation and Storage

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.
Reconstitution	Reconstituted ab84082 is stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. Avoid repeated freeze/thaw cycles.

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.

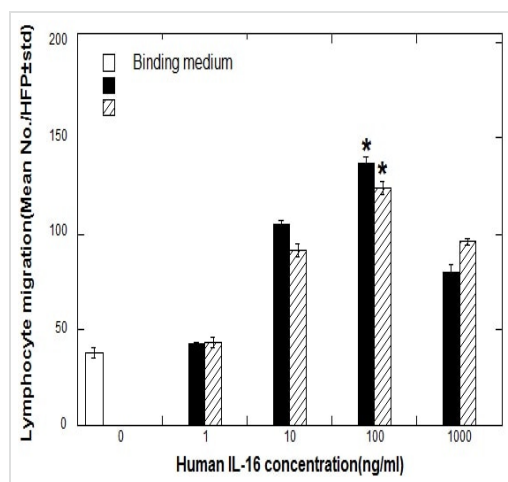
Post-translational modifications

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.

Images



Functional Studies - Recombinant human IL-16 protein (ab84082)

The migration of human peripheral lymphocytes in response to human IL-16.

Human peripheral blood lymphocytes were used in the chemotaxis assay at a final concentration of 5×10^6 /ml.

* $p < 0.001$ compared to binding medium.

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