HUMANZYME

PRODUCT DATA SHEET
A XKine™ Product

Recombinant Human IL-16 (Interleukin-16)

Product Description

IL-16 is a CD8+ T cell-derived cytokine that induces chemotaxis of CD4+ T cells, CD4+ monocytes, and eosinophils. Analysis by gel filtration suggests that, under physiological conditions, hIL-16 exists predominantly as a noncovalently linked multimer, but that some IL-16 may exist as a monomer. However, only the multimeric form appears to possess chemotactic activity, suggesting that receptor cross-linking may be required for activity. IL-16 also induces expression of IL-2 receptor (IL-2R) and MHC class II molecules on CD4 + T cells. Human and murine IL-16 show significant cross-species reactivity.

Typical Specifications

Species	Human
Expression	E. coli Cell Expressed
Purity	≥98%
Endotoxin	<1.0 EU/μg
Molecular Mass	12.4 kDa
Formulation	5 mM Sodium Phosphate, pH 5.5 + 0.5 mM DTT
Country of Origin	USA

Purity Confirmation

This was determined by SDS-PAGE gel and HPLC analysis.

Activity Assay

Determined by its ability to chemoattract human CD4+ T lymphocytes using a concentration range of 1.0-100.0 ng/ml.

AA Sequence

SAASASAASD VSVESTAEAT VCTVTLEKMS AGLGFSLEGG KGSLHGDKPL TINRIFKGAA SEQSETVQPG DEILQLGGTA MQGLTRFEAW NIIKALPDGP VTIVIRRKSL QSKETTAAGD S

Reconstitution Buffer

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex.

Storage

This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% HSA) and store in working aliquots at -20°C to -80°C.

HumanZyme Inc.
2201 W. Campbell Park Dr. #24 Chicago, IL 60612
Phone: 312.738.0127 | Fax: 312.738.0136
Email: salesandmarketing@humanzyme.com