

## IL-16 Protein, Human (His)

Cat. No.:	HY-P73169
Synonyms:	Pro-interleukin-16; Interleukin-16; IL-16; LCF
Species:	Human
Source:	E. coli
Accession:	AAC12732.1 (P2-S130)
Gene ID:	3603
Molecular Weight:	Approximately 15.3 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	IL-16, a multifunctional cytokine, elicits a migratory response in CD4 <sup>+</sup> lymphocytes, monocytes, and eosinophils. Additionally, it primes CD4 <sup>+</sup> T-cells for responsiveness to IL-2 and IL-15, and induces the expression of interleukin-2 receptor in T-lymphocytes. Functioning as a ligand for CD4, IL-16 plays a key role in cellular interactions and immune modulation. Beyond its immunomodulatory functions, IL-16 may serve as a scaffolding protein that anchors ion channels in the cell membrane, contributing to its diverse cellular effects.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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