

## IL-16 Protein, Mouse (His)

Cat. No.:	HY-P72590
Synonyms:	Pro-interleukin-16; Interleukin-16; IL-16; Lymphocyte chemoattractant factor; LCF
Species:	Mouse
Source:	E. coli
Accession:	O54824 (S1205-S1322)
Gene ID:	16170
Molecular Weight:	14-16 kDa

### PROPERTIES

AA Sequence	<p>S A A S A S A A S D    I S V E S K E A T V    C T V T L E K T S A    G L G F S L E G G K</p> <p>G S L H G D K P L T    I N R I F K G T E Q    G E M V Q P G D E I    L Q L A G T A V Q G</p> <p>L T R F E A W N V I    K A L P D G P V T I    V I R R T S L Q C K    Q T T A S A D S</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris, 150 mM NaCl, pH 8.0.
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. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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 multifaceted protein, instigates a migratory response in CD4+ lymphocytes, monocytes, and eosinophils. It plays a pivotal role in priming CD4+ T-cells for responsiveness to interleukin-2 (IL-2) and interleukin-15 (IL-15), concurrently inducing the expression of the interleukin 2 receptor. Additionally, IL-16 serves as a ligand for CD4, fostering intricate interactions. Notably, isoform 1 of IL-16 is proposed to function as a scaffolding protein, providing a structural anchor for ion channels within the cellular membrane.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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