

Animal-Free IL-16 Protein, Mouse (His)

Cat. No.:	HY-P72590AF
Synonyms:	IL16; Pro-interleukin-16Interleukin-16; IL-16; Lymphocyte chemoattractant factor; LCF;
Species:	Mouse
Source:	E. coli
Accession:	AAC04383.1 (H499-S624)
Gene ID:	16170
Molecular Weight:	Approximately 14.04 kDa

PROPERTIES

AA Sequence	M H D L N S S T D 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 G S L H G D K P L T I N R I F K G D R T G E M V Q P G D E I L Q L A G T A V Q G 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
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 7.4.
Endotoxin Level	<0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ 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	<p>IL-16, a pleiotropic cytokine, is a modulator in inflammatory processes and tumorigenesis. IL16 can bind to the CD4 molecule and activate monocytes and stimulates the secretion of inflammatory cytokines, such as TNF-α, IL1β, IL6, and IL15^[1]. Besides, IL16 can induce expression of IL2Rα and β, and synergize with IL2 to augment CD4+ T cell activation and proliferation. In addition, IL16 can induce migration in CD4+ lymphocytes, monocytes, and eosinophils as a chemoattractant factor^[2].</p> <p>IL-16 is constitutively expressed in a variety of cells, such as T cells, B cells, mast cells, eosinophils, and epithelial cells^[2]. IL-16 is mainly produced by CD4+ and CD8+ cells as a precursor protein (pro-IL-16). Pro-IL-16 is enzymatically cleaved by caspase 3, inducing the release of bioactive mature form of IL-16^[3]. Human IL-16 shares about 80% aa sequence identity with mouse.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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