

IL-17A Protein, Mouse (E. coli)

Cat. No.:	HY-P73174A
Synonyms:	CTLA8; CTLA-8; IL-17; Interleukin-17A; IL17A
Species:	Mouse
Source:	E. coli
Accession:	Q62386 (T22-A158)
Gene ID:	16171
Molecular Weight:	Approximately 11-15 kDa

PROPERTIES

AA Sequence	<p> T V K A A A I I P Q S S A C P N T E A K D F L Q N V K V N L K V F N S L G A K V S S R R P S D Y L N R S T S P W T L H R N E D P D R Y P S V I W E A Q C R H Q R C V N A E G K L D H H M N S V L I Q Q E I L V L K R E P E S C P F T F R V E K M L V G V G C T C V A S I V R Q A A </p>
Biological Activity	Measured by its ability to induce IL-6 secretion by NIH-3T3 mouse embryonic fibroblast cells. The ED ₅₀ for this effect is 2.547 ng/mL, corresponding to a specific activity is 3.926×10 ⁵ U/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.22 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
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 ₂ 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-17A Protein, an effector cytokine, plays a pivotal role in innate and adaptive immune responses, safeguarding host tissues against microbial threats. Signaling through the IL17RA-IL17RC receptor complex, it activates NF-kappa-B and MAPkinase pathways, orchestrating the transcriptional activation of immune effectors. As a hallmark Th17 cytokine, IL-17A mediates neutrophil activation, chemotaxis, and contributes to germinal center formation. It acts as part of an inflammatory circuit, promoting bacterial clearance, and is crucial for epithelial barrier integrity during homeostasis and infection. IL-17A
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enhances antiviral defense and, in synergy with IL-17F, induces the production of antimicrobial peptides. Its homodimeric and heterodimeric structures highlight its diverse interactions in immune regulation.

Caution: Product has not been fully validated for medical applications. For research use only.

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