

Animal-Free IL-17A Protein, Mouse (His)

Cat. No.:	HY-P700194AF
Synonyms:	CTLA8; CTLA-8; IL-17; Interleukin-17A; IL17A
Species:	Mouse
Source:	E. coli
Accession:	Q62386 (A26-A158)
Gene ID:	16171
Molecular Weight:	Approximately 15.92 kDa

PROPERTIES

AA Sequence	<p> M 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	Measure by its ability to induce IL-6 secretion in 3T3 cells. The ED ₅₀ for this effect is <1 ng/mL. The specific activity of recombinant mouse IL-17A is > 1 x 10 ⁶ IU/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 20 mM sodium citrate, 0.2M NaCl, pH 4.5.
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-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 enhances antiviral defense and, in synergy with IL-17F, induces the production of antimicrobial peptides. Its homodimeric</p>
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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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