

IL-17A Protein, Rat (CHO)

Cat. No.:	HY-P79326
Synonyms:	IL17a; interleukin 17A; IL17; IL-17; CTLA-8; IL-17A; interleukin-17A; Interleukin 17 (cytotoxic T-lymphocyte-associated serine esterase 8); cytotoxic T-lymphocyte-associated antigen 8; Interleukin 17
Species:	Rat
Source:	CHO
Accession:	G3V7M4/NP_001100367 (A26-S158)
Gene ID:	301289
Molecular Weight:	13-22 kDa

PROPERTIES

AA Sequence	<p> A V L I P Q S S V C P N A E A N N F L Q N V K V N L K V L N S L S S K A S S R R P S D Y L N R S T S P W T L S 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 K C P F T F R V E K M L V G V G C T C V S S I V R H A S </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 <7 ng/mL, corresponding to a specific activity is >1.43×10 ⁵ U/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 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 is predicted to play a crucial role in protein heterodimerization and homodimerization activities. It is involved in various biological processes, including the cellular response to glucocorticoid stimulus, positive regulation of necrotic cell death, and positive regulation of transcription by RNA polymerase II. This protein is found in both the cytoplasm and extracellular space. IL-17A is implicated in numerous diseases, including acute necrotizing pancreatitis, inflammatory bowel disease, lipoid nephrosis, lung diseases, and periodontal diseases, serving as a biomarker for these conditions. It is also
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associated with specific ailments such as anti-basement membrane glomerulonephritis, congestive heart failure, myocarditis, pleurisy, and uveitis. Furthermore, IL-17A's human ortholog, interleukin 17A, is linked to diseases like Mycobacterium avium complex disease, autoimmune diseases, bronchial diseases, macular degeneration, and rhinitis. Despite its low expression in the reference dataset, IL-17A remains a key player in immune response and disease pathology.

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

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