

Overview

Description	Interleukin-17A (IL-17A) , also known as CTLA-8 and IL-17, is a proinflammatory cytokine belonging to the IL-17 family. It is secreted by Th17 cells, gamma/delta T cells, NK cells and neutrophils. IL-17A signals through IL-17 receptor A in a complex with receptor C or D to regulate NF-kappaB and MAP kinase activities. IL-17A plays important roles in the anti-microbial response and chronic inflammation. It stimulates the production of IL-6, IL-8 and G-CSF in epithelial and endothelial cells, and induces the expression of ICAM-1 in fibroblasts. Clinically, IL-17A has been associated with inflammatory diseases, such as rheumatoid arthritis, psoriasis and multiple sclerosis. Recombinant human Interleukin-17A (rhIL-17A) produced in CHO cells is a glycosylated homodimer chain containing 142 amino acids. A fully biologically active molecule, rhIL-17A has a molecular mass of around 14-22 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
Accession No	Q16552
Species	Human
Source	CHO
Biological Activity	ED ₅₀ < 10ng/ml. Measured by its ability to induce IL-6 secretion by NIH 3T3 mouse embryonic fibroblast cells, corresponding to a specific activity of > 1×10 ⁵ units/mg.
Sequence	GITIPRNP GC P NSEDKNFPR TVMVNLNIHN RNTNTNPKRS SDYYNRSTSP WNLHRNEDPE RYPSVIWEAK CRHLGCINAD GNVDYHMNSV PIQQEILVLR REPPHCPNSF RLEKILVSVG CTCVTPIVHH VAHHHHHH

Properties

Measured Molecular Weight	14-22 kDa, observed by reducing SDS-PAGE.
Purity	> 95% as analyzed by SDS-PAGE.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 µg/ml.
Endotoxin Level	< 0.2 EU/µg, determined by LAL method.
Storage	Lyophilized recombinant human Interleukin-17A (IL-17A) , His remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, human Interleukin-17A (IL-17A), His should be stable up to 1 week at 4°C or up to 2 months at -20°C.
Note	For research use only

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