

DATASHEET
Version 20181206**IL-17A, His, Human****Cat. No.:** Z03228-50**Size:** 50.0 ug**Synonyms:** Interleukin-17A (IL-17A), His, Human**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 at GenScript.

Amino Acid Sequence:

00001 GITIPRNPGC PNEEDKNFPR TVMVNLNIHN RNTNTNPKRS
00041 SDYYNRSTSP WNLHRNEDPE RYPSVIWEAK CRHLGCINAD
00081 GNVDYHMNSV PIQQEILVLR REPPhCPNSF RLEKILVSVG
00121 CTCVTPIVHH VAHHHHHH

Source: CHO**Species:** Human**Biological Activity:** ED₅₀ < 0.3 ng/ml, measured in a bioassay using NHDF cells, corresponding to a specific activity of > 3.3×10⁶ units/mg.**Molecular Weight:** 14-22 kDa, observed by reducing SDS-PAGE.**Formulation:** Lyophilized after extensive dialysis against PBS.**Reconstitution:** Reconstituted in ddH₂O or PBS at 100 µg/ml.**Purity:** > 95% as analyzed by SDS-PAGE.**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.