DATASHEET
Version 20181206

IL-17A, His, Human

Cat. No.: Z03228-1

Size: 1.0 mg

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:

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00001 GITIPRNPGC PNSEDKNFPR TVMVNLNIHN RNTNTNPKRS
00041 SDYYNRSTSP WNLHRNEDPE RYPSVIWEAK CRHLGCINAD
00081 GNVDYHMNSV PIQQEILVLR REPPHCPNSF RLEKILVSVG
00121 CTCVTPIVHH VAHHHHHH
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Source: *CHO*

Species: Human

Biological Activity: ED_{50} < 0.3 ng/ml, measured in a bioassay using NHDF cells, corresponding to a specific activity of > 3.3×10^6 units/mg.

Molecular Weight: 14-22 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH_2O 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 humanInterleukin-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.

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