

IL-17A Protein, Human, Recombinant (His)

General Information

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| Synonyms: | IL17A;CTLA-8 |
| Protein Construction: | Gly24-Ala155 |
| Species: | Human |
| Expression Host: | CHO Cells |
| Accession: | Q16552 |
| Molecular Weight: | 14~22 kDa (Reducing conditions) |

QC Testing

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|----------------------|---|
| Biological Activity: | ED 50 < 10.0 ng/ml. Measured by its ability to induce IL-6 secretion by NIH 3T3 mouse embryonic fibroblast cells, corresponding to a specific activity of > 1.0 × 10 ⁵ units/mg. |
| Purity: | > 95% as determined by SDS-PAGE |
| Endotoxin: | < 0.2 EU/μg of protein as determined by the LAL method. |
| Formulation: | Lyophilized from a 0.2 μm filtered solution in PBS. |

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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