

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant IL-17A, His, Human

Catalog Number: BK0234-1mg

Source: CHO

Quantity: 1mg

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.

Molecular Weight:

14-22 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% as analyzed by SDS-PAGE.

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.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

GITIPRN-
PGCPNSEDKNFPRTVMVNLNIHNRNTNT-
NPKRSSDYYNRSTSPWNLHRNEDPERYPYSVI-
WEAKCRHLGCINADGNVDY-
HMNSVPIQQEILVLRREPPHCPNS-
FRLEKILVSVGCTCVTPIVHHVAHHHHHH

Endotoxin:

< 0.2 EU/μg, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O or PBS at 100 μg/ml.

Storage:

Lyophilized recombinant human Interleukin-17A (IL-17A), His remains stable up to 6 months at -80 °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.

Usage:

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