

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant IL-6, Human

Catalog Number: BK0109-50µg

Source: Escherichia coli.

Quantity: 50µg

Description:

Interleukin-6 (IL-6, also known as IFN-β2) is a pleiotropic cytokine that plays important roles in acute phase reactions, inflammation, hematopoiesis, bone metabolism, and cancer progression. IL-6 is secreted by T cells and macrophages to stimulate immune response. IL-6 is responsible for stimulating acute phase protein synthesis, as well as the production of neutrophils in the bone marrow. It supports the growth of B cells and is antagonistic to regulatory T cells. Recombinant human Interleukin-6 (rhIL-6) produced in E.coli is a single non-glycosylated polypeptide chain containing 185 amino acids. A fully biologically active molecule, rhIL-6 has a molecular mass of 20.9 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.

Molecular Weight:

20.9 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% by SDS-PAGE analysis.

Biological Activity:

ED50 <0.1ng/ml, measured by the dose-dependent stimulation of the proliferation of IL-6 dependent murine 7TD1 cells, corresponding to a specific activity of > 1 x 10⁷ units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

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Formulation:

Lyophilized after extensive dialysis against 1xPBS.

AA Sequence:

MPVPPGEDSKDVAAPHRQPLTSSERIDKQIRY-
ILDGISALRKETCNKSNMCESS-
KEALAENNLNLPKMAEKDGCFSQGFNEETCLVK
IITGLLEFEVYLEYLQNRFSSEEQARAVQM-
STKVLIQFLQKKAKNLDAITTPDPTT-
NASLLTKLQAQNQWLQDMTTHLILRS-
FKEFLQSSLRALRQM

Endotoxin:

< 0.2 EU/µg, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O at 100 µg/ml.

Storage:

Lyophilized recombinant human Interleukin-6 (rhIL-6) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rhIL-6 should be stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.

Usage:

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