

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant Human Interleukin-6 (rHuIL-6)

Catalog Number: PR1073

Source: Escherichia coli.

Quantity: 5µg/20µg/1.0mg

Description

Interleukin 6 (IL-6) is a multifunctional protein that plays important roles in host defense, acute phase reactions, immune responses, and hematopoiesis. According to the type of biological responses being studied, IL-6 was previously named interferon-β2, 26-kDa protein, B cell stimulatory factor-2 (BSF-2), hybridoma/plasmacytoma growth factor, hepatocyte stimulating factor, cytotoxic T cell differentiation factor, and macrophage-granulocyte inducing factor 2A (MGI-2A). The IL-6 designation was adopted after these variously named proteins were found to be identical on the basis of their amino acid and/or nucleotide sequences. IL-6 is expressed by a variety of normal and transformed cells including T cells, B cells, monocytes/macrophages, fibroblasts, hepatocytes, keratinocytes, astrocytes, vascular endothelial cells, and various tumor cells. The production of IL-6 is upregulated by numerous signals including mitogenic or antigenic stimulation, LPS, calcium ionophore, IL-1, IL-2, IFN, TNF, PDGF, and viruses. IL-6 expression in monocytes is inhibited by IL-4 and IL-13.

Molecular Weight:

Approximately 20.9 kDa, a single non-glycosylated polypeptide chain containing 184 amino acids.

Purity:

>97% by SDS-PAGE and HPLC analyses.

Biological Activity:

Fully biologically active when compared to standard. The ED50 as determined by the dose-dependant stimulation of murine 7TD1 cells is less than 0.1 ng/ml. corresponding to a Specific Activity of $\square 1 \times 10^7$ IU/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized from a 0.2mm filtered concentrated solution in PBS, pH 7.4.

AA Sequence:

P V P P G E D S K D V A A P H R Q P L T S S E R I D K
Q I R Y I L D G I S A L R K E T C N K S N M C E S S K E
A L A E N N L N L P K M A E K D G C F Q S G F N E E T
C L V K I I T G L L E F E V Y L E Y L Q N R F E S S E E
Q A R A V Q M S T K V L I Q F L Q K K A K N L D A I T
T P D P T T N A S L L T K L Q A Q N Q W L Q D M T T
H L I L R S F K E F L Q S S L R A L R Q M

Endotoxin:

Less than 1EU/mg of rHuIL-6 as determined by LAL method.

Reconstitution:

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at <-20°C. Further dilutions should be made in appropriate buffered solutions.

Storage:

This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.

MADE IN CHINA

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Usage:

HUMAN USE. Made in China

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. NOT FOR

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