

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant Murine Interleukin-6 (rMuIL-6)

Catalog Number: PR2026

Source: Escherichia coli.

Quantity: 2µg/10µg/1.0mg

Description

Interleukin 6 is a multi functional protein that plays important roles in host defense, acute phase reactions, immune responses, and hematopoiesis. 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 21.7 kDa, a single non-glycosylated polypeptide chain containing 187 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-dependent stimulation of the proliferation of IL-6-dependent murine 7TD1 cells is < 0.02 ng/ml, corresponding to a specific activity of > 5 x 10⁷ units/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:

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

Endotoxin:

Less than 1EU/mg of rMuIL-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.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE. Made in China

MADE IN CHINA

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