

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant Murine Interleukin-11 (rMuIL-11)

Catalog Number: PR2009

Source: Escherichia coli.

Quantity: 2µg/10µg/1.0mg

Description

Interleukin 11 is a pleiotropic cytokine that was originally detected in the conditioned medium of an IL-1 α -stimulated primate bone marrow stromal cell line (PU-34) as a mitogen for the IL-6-responsive murine plasmacytoma cell line T11. IL-11 contains no cysteine residues or potential glycosylation sites. IL-11 has multiple effects on both hematopoietic and nonhematopoietic cells. Many of the biological effects described for IL-11 overlap those for IL-6. In vitro, IL-11 can synergize with IL-3, IL-4 and SCF to shorten the G0 period of early hematopoietic progenitors. IL-11 also enhances the IL-3-dependent megakaryocyte colony formation. IL-11 has been found to stimulate the T cell dependent development of specific immunoglobulin-secreting B cell.

Molecular Weight:

Approximately 19.1 kDa, a single non-glycosylated polypeptide chain containing 179 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 the proliferation of murine T11 was found to be less than 2.0 ng/ml, corresponding to a specific activity of $\square 5 \times 10^5$ IU/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

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

AA Sequence:

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

Endotoxin:

Less than 1EU/mg of rmIL-11 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 $< -20^{\circ}\text{C}$. Further dilutions should be made in appropriate buffered solutions.

Storage:

This lyophilized preparation is stable at $2-8^{\circ}\text{C}$, 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 $2-8^{\circ}\text{C}$. 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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