

# PRODUCT DATA SHEET



Bioworld Technology, Inc.

## Recombinant IL-11, Mouse(HEK 293-expressed)

Catalog Number: BK0311-10 $\mu$ g

Source: HEK 293

Quantity: 10 $\mu$ g

### Description:

Interleukin-11 (IL-11) is a pleiotropic cytokine that was originally detected in the conditioned medium of an IL-1 $\alpha$ -stimulated primate bone marrow stromal cell line (PU-34) as a mitogen for the IL-6-responsive mouse plasmacytoma cell line T11. IL-11 contains no cysteine residues or potential glycosylation sites. IL-11 has multiple effects on both hematopoietic and non-hematopoietic 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:

~21 kDa, observed by reducing SDS-PAGE.

### Purity:

> 95% as analyzed by SDS-PAGE and HPLC.

### Biological Activity:

ED50 < 3 ng/ml, measured in a cell proliferation assay using T11 cells.

### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

### Formulation:

Lyophilized after extensive dialysis against PBS.

### AA Sequence:

GPPAGSPRVSSDPRADLDSAVLLTRSLLD-  
TRQLAAQMRDKFPADGDHSLDSLPTLAMSAG-  
TLGSLQLPGVLRRLRVDLMSYLRHVQWL-  
RRAGGPSLKTLEPEL-  
GALQARLERLLRRLQLLMSRLALPQAAPDQPVIP  
LGPPASAWGSIRAAHAILGGLHLTLDWAVR-  
GLLLKTRL

### Endotoxin:

< 0.2 EU/ $\mu$ g, determined by LAL method.

### Reconstitution:

Reconstituted in ddH<sub>2</sub>O or PBS at 100  $\mu$ g/ml.

### Storage:

Lyophilized recombinant Murine Interleukin-11 (IL-11) remains stable up to 6 months at -80  $^{\circ}$ C from date of receipt. Upon reconstitution, Murine Interleukin-11 (IL-11) should be stable up to 1 week at 4  $^{\circ}$ C or up to 2 months at -20  $^{\circ}$ C.

### Usage:

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