

# PRODUCT DATA SHEET



Bioworld Technology, Inc.

## Recombinant IL-7, His, Rat

Catalog Number: BK0257-10µg

Source: CHO

Quantity: 10µg

### Description:

Interleukin-7 (IL-7), also known as lymphopoietin 1 and pre-B cell factor, is a hematopoietic growth factor belonging to the IL-7/IL-9 family. It is produced by keratinocytes, dendritic cells, hepatocytes, neurons and epithelial cells. IL-7 binds and signals through IL-7 receptor, a heterodimer consisting of IL-7 receptor alpha and common gamma chain receptor. IL-7 plays a role in regulating early B cell and T cell development. It is also important for optimal dendritic cell-T cell interaction.

### Molecular Weight:

20-28 kDa, observed by reducing SDS-PAGE.

### Purity:

> 95% as analyzed by SDS-PAGE.

### Biological Activity:

ED50 < 22 ng /ml, measured in a cell proliferation assay using 2E8 cells.

### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

### Formulation:

Lyophilized after extensive dialysis against PBS.

### AA Sequence:

DCHIKDKDGKAFGSVLMIS-  
INQLDKMTGTDSDCPNNEPNFFKKHLCDDT-  
KEAAFLNRAARKLRQFLKMNISEEF-  
NDHLLRVSDGTQTLVNCTSKEEK-  
TIKEQKKNDPFCFLKRLLEIKTCWINKILKG-  
SIHHHHHH

### Endotoxin:

< 0.2 EU/µg, determined by LAL method.

### Reconstitution:

Reconstituted in ddH<sub>2</sub>O or PBS at 100 µg/ml.

### Storage:

Lyophilized recombinant rat Interleukin-7 (IL-7), His remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rat Interleukin-7 (IL-7), His should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.

### Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. For research use only.