

# PRODUCT DATA SHEET



Bioworld Technology, Inc.

## Recombinant IL-1 $\alpha$ , Rat

Catalog Number: BK0237-50 $\mu$ g

Source: CHO

Quantity: 50 $\mu$ g

### Description:

Interleukin-1 alpha (IL-1 $\alpha$ ), is produced in a variety of cells including monocytes, tissue macrophages, keratinocytes and other epithelial cells. Both IL-1alpha and IL-1beta bind to the same receptor and have similar if not identical biological properties. These cytokines have a broad range of activities including stimulation of thymocyte proliferation via IL-2 release, B-cell maturation and proliferation, mitogenic FGF-like activity, and the ability to stimulate the release of prostaglandin and collagenase from synovial cells. However, whereas IL-1beta is a secreted cytokine, IL-1alpha is predominantly a cell-associated cytokine.

### Molecular Weight:

17~22 kDa, observed by reducing SDS-PAGE.

### Purity:

> 95% as analyzed by SDS-PAGE.

### Biological Activity:

ED50 <5 pg/ml, measured in a proliferation assay using D10S cells.

### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

### Formulation:

Lyophilized after extensive dialysis against PBS.

### AA Sequence:

APHSFQNNLRYKLIRIVKQEFIMNDSLQNQNI-  
YVDMDRHLKAASLNDLQLEVKFDMYAYSSGG-  
KFDMYAYSSGG-  
DDSKYPVTLKVSNTQLFVSAQGEDKPVLLKEIPE  
TPKLITGSETDLIFFWEKINSKNYFTSAAFPELLI-  
ATKEQSQVHLARGLPSMIDFQIS

### 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 Rat Interleukin-1 alpha remains stable up to 6 months at -80  $^{\circ}$ C from date of receipt. Upon reconstitution, Rat Interleukin-1 alpha should be stable up to 1 week at 4  $^{\circ}$ C or up to 2 months at -20  $^{\circ}$ C.

### Usage:

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