

# PRODUCT DATA SHEET



Bioworld Technology, Inc.

## Recombinant IL-1 RA, Human(HEK 293-expressed)

Catalog Number: BK0310-1mg

Source: HEK 293

Quantity: 1mg

### Description:

IL-1 Receptor Antagonist, also known as IL-1RA, ICIL-1RA, IRAP and IL-1RN, is a member of the interleukin 1 cytokine family. It is expressed by monocytes, neutrophils, macrophages, epithelial cells and fibroblasts. IL-1RA inhibits the activity of both IL-1alpha and IL-1beta, and modulates a variety of IL-1 related immune and inflammatory responses. It inhibits the activity of IL-1 by binding to the receptor IL-1R1 and preventing its association with the coreceptor IL-1RAP for signaling. Clinical studies are being conducted to investigate the use of IL-1RA in the treatment of sepsis, rheumatoid arthritis and chronic myelogenous leukemia.

### Molecular Weight:

18-23 kDa, observed by reducing SDS-PAGE.

### Purity:

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

### Biological Activity:

ED50 < 0.1 µg /ml, measured in a neutralization assay using D10S cells in the presence of 50pg/ml Human IL-1a.

### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

### Formulation:

Lyophilized after extensive dialysis against PBS.

### AA Sequence:

RPSGRKSSKMQAFRIWDVNQKTFYLRNNQL-  
VAGYLQGPVNVNLEEK-  
IDVVPIEPHALFLGIHGGKMCLSCVKSGDETRLQ  
LEAVNITDLSNRKQDKRFAF-  
IRSDSGPTTSFESAACPGW-  
FLCTAMEADQPVSLTNMPDEGVMVTKFYFQEDE

### 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 human IL-1 Receptor Antagonist remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, Human IL-1 Receptor Antagonist should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.

### Usage:

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