

# PRODUCT DATA SHEET



Bioworld Technology, Inc.

## Recombinant IL-6R, Human

Catalog Number: BK0254-50µg

Source: CHO

Quantity: 50µg

### Description:

Interleukin-6 Receptor Alpha, also known as IL-6RA, IL-6R1 and CD126, belongs to the type I cytokine receptor family. It is mainly expressed on T cells, fibroblasts and macrophages. IL-6RA couples with gp130 to form the IL-6 receptor; IL-6RA binds specifically to IL-6 and depends on gp130 to transmit signals. IL-6RA dysfunction has been correlated with the pathogenesis of many diseases, such as multiple myeloma, autoimmune diseases and prostate cancer. Soluble IL-6RA, which consists of only the extracellular domain of IL-6RA, acts as an agonist of IL-6 activity.

### Molecular Weight:

54-56 kDa, observed by reducing SDS-PAGE.

### Purity:

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

### Biological Activity:

ED50 < 0.2 µg/ml, measured in a cell proliferation assay using M1 cells in the presence of 10 ng/ml human IL-6.

### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

### Formulation:

Lyophilized after extensive dialysis against PBS.

### AA Sequence:

PVPPGEDSKDVAAPHRQPLTSSERIDKQIRYILD-  
GISALRKETCNKSNMCESS-  
KEALAENNLNLPKMAEKDGCFSQGFNEETCLVK  
IITGLLEFEVYLEYLQNRFSSEEQARAVQM-  
STKVLIQFLQKKAKNLDAITTPDPTT-  
NASLLTKLQAQNQWLQDMTTHLILRS-  
FKEFLQSSLRALRQM

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

### Usage:

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