

# PRODUCT DATA SHEET



Bioworld Technology, Inc.

## Recombinant IL-18 BP, Human

Catalog Number: BK0236-10µg

Source: CHO

Quantity: 10µg

### Description:

Interleukin-18 binding protein, also known as IL-18BP and tadekinig-alfa, is a secreted glycoprotein that contains an Ig-like C2-type domain. It is expressed in heart, lung, placenta and spleen. IL-18BP functions as an inhibitor of the proinflammatory cytokine IL-18. It binds to IL-18, prevents the binding of IL-18 to its receptor, and thus blocks IL-18-induced IFN-gamma production. The complete Ig domain has been shown to mediate the binding and neutralizing properties. IFN-gamma is able to upregulate the expression of IL-18BP, indicating that IL-18 activity is regulated by a feedback mechanism through IL-18BP.

### Molecular Weight:

42-44 kDa, observed by reducing SDS-PAGE.

### Purity:

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

### Biological Activity:

ED50 < 30 ng /ml, measured in a bioassay using KG-1 cells in the presence of 50ng/ml Human IL-18.

### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

### Formulation:

Lyophilized after extensive dialysis against PBS.

### AA Sequence:

TPVSQTTTAATASVRSTKDCPCP-  
SQPPVFPAAKQCPALEV-  
TWPEVEVPLNGTSLSCVACSRF-  
PNFSILYWLGNCSFIEHLPGR-  
WEGSTSRERGSTGTQLCKALVLEQLTPALHSTNF  
PALHSTNF-  
SCVLVDPEQVVQRHVLAQLWAGLRATLPPTQE  
ALPSSHSSPQQQG

### 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-18BP remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, Human IL-18BP should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.

### Usage:

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