

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant IL-18 BP, Human

Catalog Number: BK0236-50µg

Source: CHO

Quantity: 50µg

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-
PNFSILYWLGNCSFIEHLPGRLL-
WEGSTSRERGSTGTQLCKALVLEQLTPALHSTNF
PALHSTNF-
SCVLVDPEQVVQRHVLAQLWAGLRATLPPTQE
ALPSSHSSPQQQG

Endotoxin:

< 0.2 EU/µg, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O 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:

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