

Active Recombinant Human IL18BP Protein

Cat. No. IL18BP-252I **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL18BP Protein without tag was expressed in CHO.
Species	Human
Source	CHO
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.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 30 ng/mL, measured in a bioassay using KG-1 cells in the presence of 50 ng/mL Human IL-18.
Molecular Mass	42-44 kDa, observed by reducing SDS-PAGE.
AA Sequence	TPVSQTTTAATASVRSTKDPCPSQPPVFPAAKQCPALEVTWPEVEVPLNGTSLSC VACSRFPNFSILYWLGNFSFIEHLPGRLEWGSTRERGSGTQLCKALVLEQLTPAL HSTNFSCVLVDPEQVVQRHVLAQLWAGLRATLPPTQEALPSSHSPQQQG

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Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Storage	Lyophilized recombinant Human IL-18BP remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, Human IL-18BP should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 μg/mL.

GENE INFORMATION

Gene Name	IL18BP interleukin 18 binding protein [Homo sapiens]
Official Symbol	IL18BP
Synonyms	IL18BP; interleukin 18 binding protein; interleukin-18-binding protein; IL18BPα; MC51L 53L 54L homolog gene product; IL-18BP; tadekinig-alfa; MC51L-53L-54L homolog gene product;
Gene ID	10068
mRNA Refseq	NM_001039659
Protein Refseq	NP_001034748
MIM	604113
UniProt ID	O95998

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