

PRODUCT INFORMATION

Target	IL18BP
Synonyms	IL18BP;IL18BP α ;Tadakinig-alfa
Description	Recombinant Cynomolgus IL18BP protein with C-terminal 6 \times His tag
Delivery	In Stock
Uniprot ID	A0A2K5UDJ4
Expression Host	HEK293
Tag	C-6 \times His Tag
Molecular Characterization	IL18BP(Thr28-Pro207) 6 \times His tag
Molecular Weight	The protein has a predicted molecular mass of 20.1 kDa after removal of the signal peptide.
Package	10 μ g \$250.00 ; 50 μ g \$938.00 ; 100 μ g \$1375.00
Purity	The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5% - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Storage & Shipping	Store at -20 $^{\circ}$ C to -80 $^{\circ}$ C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80 $^{\circ}$ C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Background	Interleukin-18-binding protein (IL-18BP) is a constitutively expressed and secreted protein. IL-18BP is a cytokine receptor that belongs to the interleukin 1 receptor family. This receptor specifically binds interleukin 18 (IL18) and is essential for IL18 mediated signal transduction. IFN- α and IL12 are reported to induce the expression of this receptor in NK and T cells. This gene along with four other members of the interleukin 1 receptor family, including IL1R2, IL1R1, ILRL2 (IL-1Rrp2), and IL1RL1 (T1/ST2), form a gene cluster on chromosome 2q. The adjacently located family members IL18 Receptor 1 (IL18R1) and IL18 receptor accessory protein (IL18RAP) may also be important in the development of asthma and atopy. IL-18 binding protein (IL-18BP) was only moderately elevated, resulting in a high level of biologically active free IL-18 in HPS. A severe IL-18/IL-18BP imbalance results in Th-1 lymphocyte and macrophage activation, which escapes control by NK-cell cytotoxicity and may allow for secondary HPS in patients with underlying diseases.
Usage	Research use only
Conjugate	Unconjugated





Figure 1. Cynomolgus IL18BP Protein, His Tag on SDS-PAGE under reducing condition.

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