

## **PRODUCT INFORMATION**

IL18BP **Target** 

IL18BP;IL18BPa;Tadekinig-alfa Synonyms

Recombinant Canis IL18BP protein with C-**Description** 

terminal human Fc tag

**Delivery** In Stock **Uniprot ID** F1PLB5 **Expression Host** HFK293

Tag C-Human Fc Tag

Molecular

**Molecular Weight** 

Storage & Shipping

**Background** 

IL18BP(Thr31-Phe192) hFc(Glu99-Ala330) Characterization

The protein has a predicted molecular mass of

43.7 kDa after removal of the signal peptide. The apparent molecular mass of dIL18BP-hFc is approximately 55-70 kDa due to glycosylation. The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue

Purity

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis Formulation & Reconstitution

for specific instructions of reconstitution. Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not

intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient

temperature.

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-alpha 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 (ÍL18R1) 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

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underlying diseases.

Usage Research use only Conjugate Unconjugated

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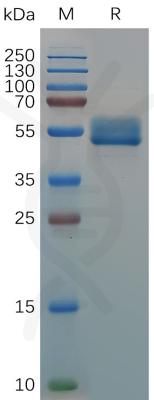


Figure 1.Canis IL18BP Protein, hFc Tag on SDS-PAGE under reducing condition.

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