

## 32-17711: Recombinant *Canis lupus familiaris* IL18BP Protein, hFc Tag

**Uniprot ID :** F1PLB5

**Alternative Name :** IL18BP, IL18BP<sub>a</sub>, Tadekinig-alfa

### Description

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

Molecular weight: 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.

Description: Recombinant *Canis* IL18BP protein with C-terminal human Fc tag

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-1R $\beta$ 2), 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.

### Product Info

**Amount :** 100  $\mu$ g / 50  $\mu$ g

**Content :** Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization.

**Storage condition :** 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.