

CYNOMOLGUS IL18BP PROTEIN, HFC TAG

Cat.#: 12107

Product Name: Cynomolgus IL18BP Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: IL18BP;IL18BPα;Tadekinig-alfa

Target: IL18BP

UNIPROT ID: A0A2K5UDJ4

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

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, IL1RL2 (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.

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 45.4 kDa after removal of the signal peptide. The apparent molecular mass of cIL18BP-hFc is approximately 55-70 kDa due to glycosylation.

Molecular Characterization: IL18BP(Thr28-Pro207) hFc(Glu99-Ala330)

Purity: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: 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.

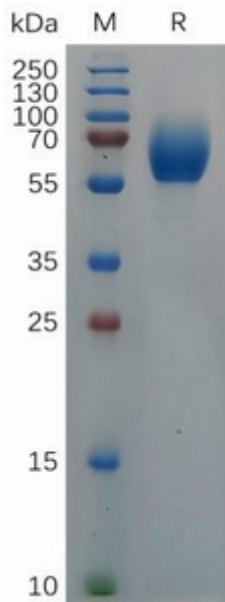


Figure 1. Cynomolgus IL18BP Protein, hFc Tag on SDS-PAGE under reducing condition.