

PRODUCT INFORMATION

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| Target | IL18BP |
| Synonyms | IL18BP;IL18BPα;Tadakinig-alfa |
| Description | Recombinant Cynomolgus IL18BP protein with C-terminal human Fc tag |
| Delivery | In Stock |
| Uniprot ID | A0A2K5UDJ4 |
| Expression Host | HEK293 |
| Tag | C-Human Fc Tag |
| Molecular Characterization | IL18BP(Thr28-Pro207) hFc(Glu99-Ala330) |
| 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. |
| Purity | The purity of the protein is greater than 95% 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°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. |
| 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 |



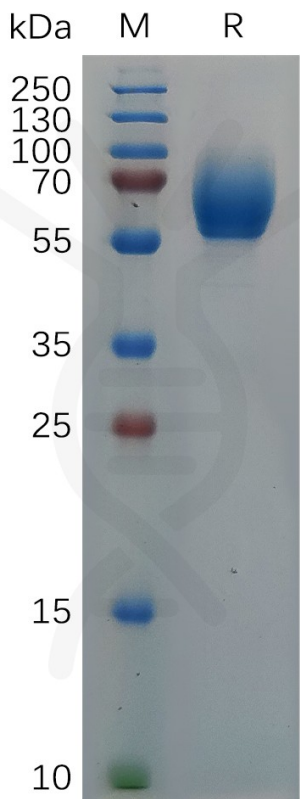


Figure 1. Cynomolgus IL18BP Protein, hFc Tag on SDS-PAGE under reducing condition.

