

For Research Use Only

Recombinant Mouse IL18BP protein (rFc Tag)



Catalog Number: Eg3158

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/μg protein, LAL method

Source:

HEK293-derived Mouse IL18BP protein Thr29-Ala193 (Accession# Q9Z0M9) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

16068

Accession:

Q9Z0M9

Predicted Molecular Mass:

44.0 kDa

SDS-PAGE:

48-70 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

IL-18 Binding Protein (IL18BP) is a soluble protein that acts as a natural antagonist of interleukin-18 (IL-18), a pro-inflammatory cytokine involved in immune responses. It binds to IL-18 with high affinity, preventing IL-18 from interacting with its receptors (IL-18Ra and IL-18Rβ) and thus inhibiting its biological activity. This regulation is crucial for maintaining immune homeostasis and preventing excessive inflammation. IL18BP is a biomarker for disease activity and severity, as well as a therapeutic target in cancer immunotherapy.

References

1. Novick D. et al. (1999). Immunity. 10(1):127-136.
2. Kim SH. et al. (2000). Proc Natl Acad Sci U S A. 97(3):1190-1195.
3. Belkaya S. et al. (2019). J Exp Med. 216(8):1777-1790.
4. Zhou T. et al. (2020). Nature. 583(7817):609-614.

Synonyms

Igfbp, IL18bp, IL-18BP, Interferon gamma-inducing factor-binding protein, Interleukin-18-binding protein

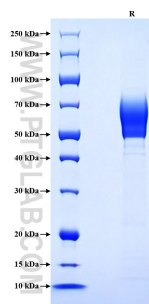
For technical support and original validation data for this product please contact

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Selected Validation Data



Purity of Recombinant Mouse IL18BP was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.