For Research Use Only

Recombinant Mouse Il2rb protein (rFc Tag)

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Catalog Number: Eg2709

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<1.0 EU/μg protein, LAL method

Source:
HEK293-derived Mouse Il2rb protein Ala27-Glu240 (Accession# P16297) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
16185

Accession:
P16297

Predicted Molecular Mass:
50.6 kDa

SDS-PAGE:

Formulation:
Lyophilized from sterile 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-2RB (CD122) is a 70-75 kD type I transmembrane glycoprotein and a member of the immunoglobulin superfamily, also known as the IL-2 receptor beta chain. It is a critical component of the IL-2 receptor complex, which exists in three forms with varying affinities for IL-2: low (alpha subunit only), intermediate (alpha/beta heterodimer), and high (alpha/beta/gamma heterotrimer) affinity forms. IL-2RB is involved in receptor-mediated endocytosis and transduces mitogenic signals from IL-2, playing a key role in T cell-mediated immune responses. It is also shared by the IL-15 receptor and is essential for the development and function of regulatory T cells. IL-2RB expression is restricted to early B cells and activated T and B lymphocytes, highlighting its importance in lymphocyte development and activation.

References

1. de Jong, J L et al. Cytokine vol. 10,12 (1998): 920-30.
2. Ruyssen-Witrand, Adeline et al. Joint bone spine vol. 81,3 (2014): 228-34.
3. He, Lingge et al. Biochemical genetics vol. 59,3 (2021): 697-713.
4. Sun, Lina et al. Signal transduction and targeted therapy vol. 9,1 (2024): 152.

Synonyms

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

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Selected Validation Data