

For Research Use Only

Recombinant Mouse IL-12 R beta 1 protein (rFc Tag)



Catalog Number: Eg3196

Basic Information	Species: Mouse	Purity: >90 %, SDS-PAGE	Tag: rFc Tag
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Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<1.0 EU/ μ g protein, LAL method

Source:
HEK293-derived Mouse IL-12 R beta 1 protein Gln20-Ser565 (Accession# Q60837) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
16161

Accession:
Q60837

Predicted Molecular Mass:
87.4 kDa

SDS-PAGE:

Formulation:
Lyophilized from 0.22 μ m 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-12RB1 (Interleukin-12 receptor subunit beta-1) is a type I transmembrane receptor that can bind to the P40 domain of IL-12/IL-23 and promote their immune response separately. Meanwhile, excess P40 binding to IL-12RB1 reduces the antitumor effect of normal IL-12, resulting in immune evasion of the tumor cells. IL-12RB1 was mainly expressed in epithelial cells and immune cells. IL-12RB1 was tightly associated with PD-1/PD-L1 expression and may have a potential effect on treatments targeting the PD-1/PD-L1 axis.

References

1. Vignali, Dario A A, and Vijay K Kuchroo. Nature immunology vol. 13,8 (2012) 722-8.
2. Kundu, Madhuchhanda et al. Proceedings of the National Academy of Sciences of the United States of America v
3. Chen, Zheng et al. Annals of translational medicine vol. 10,3 (2022): 144.

Synonyms

Selected Validation Data

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

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