

For Research Use Only

Recombinant Human IL-2 R gamma/CD132 protein (His Tag)



Catalog Number: Eg1705

Basic Information

ED50:
/

GeneID:
3561

Species:
Human

Accession:
P31785-1

Purity:
>90 %, SDS-PAGE

Technical Specifications

Purity:
>90 %, SDS-PAGE

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

Source:
HEK293-derived Human IL-2 R gamma protein Leu23-Asn254 (Accession# P31785-1) with a His tag at the C-terminus.

Predicted Molecular Mass:
31.4 kDa

SDS-PAGE:
46-60 kDa, reducing (R) condition

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

The interleukin-2 receptor (IL-2R) is a heterotrimeric receptor consisting of three subunits, alpha (IL-2RA), beta (IL-2RB), and gamma (IL-2RG). IL-2RG, also known as CD132, is an important signaling component of many interleukin receptors, including those of interleukin -2, -4, -7 and -21, and is thus referred to as the common gamma chain. Mutations in the gene of IL-2RG cause X-linked severe combined immunodeficiency (XSCID), as well as X-linked combined immunodeficiency (XCID), a less severe immunodeficiency disorder. IL-2RG plays a pivotal role as a common subunit receptor in the IL-2 family cytokines and activates the JAK-STAT pathway.

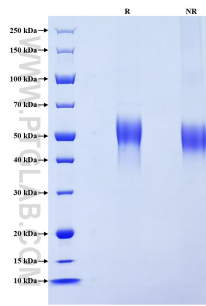
References

1. Zheng Y, et al. (2023) Asian J Surg. 46(11):5359-5361.
2. Le Floc'h A, et al. (2023) Sci Transl Med. 15(678):eabo0205.
3. Nourizadeh M, et al. (2015) Iran J Allergy Asthma Immunol. 14(4):457-61.
4. Mahdavi FS, et al. (2021) Allergy Asthma Clin Immunol. 17(1):107.
5. Gharib E, et al. (2024) J Transl Med. 22(1):439.

Synonyms

IL2RG,CD132,gammaC,IL 2 receptor subunit gamma,IL

Selected Validation Data



Purity of Recombinant Human IL-2 R gamma was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

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

T: 027-87531629

E: Proteintech-CN@ptglab.com

W: ptgcn.com

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