

For Research Use Only

Recombinant Human CD122/IL-2RB protein (His Tag)



Catalog Number: Eg1688

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
His Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/μg protein, LAL method

Source:

HEK293-derived Human CD122 protein Ala27-Asp239 (Accession# P14784) with a His tag at the C-terminus.

GeneID:

3560

Accession:

P14784

Predicted Molecular Mass:

25.7 kDa

SDS-PAGE:

32-40 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

The interleukin 2 receptor, which is involved in T cell-mediated immune responses, is present in 3 forms with respect to ability to bind interleukin 2. The low affinity form is a monomer of the alpha subunit and is not involved in signal transduction. The intermediate affinity form consists of an alpha/beta subunit heterodimer, while the high affinity form consists of an alpha/beta/gamma subunit heterotrimer. The beta subunit (IL2RB, also known as CD122 and p75) is involved in receptor mediated endocytosis and transduces the mitogenic signals of interleukin 2. As one of subunits for interleukin-2 receptor (IL-2R), CD122 can bind to IL-2 and then activate downstream signal transduction to participate in adaptive immune response. IL-2RB is receptor for interleukin-2. This beta subunit is involved in receptor mediated endocytosis and transduces the mitogenic signals of IL2. It is probably in association with IL15RA, involved in the stimulation of neutrophil phagocytosis by IL15.

References

1. Geng M, et al. (2024). Fish Shellfish Immunol. 153:109839.
2. Ratthé C, Girard D. (2004). J Leukoc Biol. 76(1):162-8.
3. Zhang Z, et al. (2019). J Exp Med. 216(6):1311-1327.

Synonyms

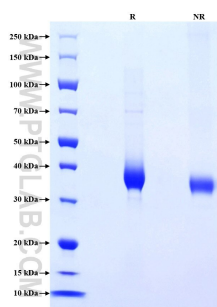
IL2RB, CD122, High affinity IL-2 receptor subunit beta, IL 2 receptor subunit beta, IL 2R subunit beta

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

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Selected Validation Data



Purity of Recombinant Human CD122 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.