

Recombinant Human IL-23R protein (His Tag)

Catalog Number: Eg0853

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 IL-23R protein Gly24-Gly355 (Accession# Q5VWK5-1) with a His tag at the C-terminus.

GeneID:

149233

Accession:

Q5VWK5-1

Predicted Molecular Mass:

39.1 kDa

SDS-PAGE:

50-70 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

Interleukin-23 receptor (IL23R) is a type I cytokine receptor that plays a pivotal role in the immune system, particularly in the maturation and function of T helper 17 (Th17) cells. IL23R, along with IL12R β 1, forms the receptor complex necessary for IL-23 signaling, which is critical for the production of IL-17 and the activation of pro-inflammatory activities. This receptor is expressed on various immune cells, including T cells, NK cells, dendritic cells, and macrophages. Research has shown that variations in the IL-23R gene can significantly influence susceptibility to several diseases, particularly inflammatory bowel diseases such as ulcerative colitis (UC) and Crohn's disease (CD). In addition to UC, IL-23R has been implicated in other inflammatory conditions, including rheumatoid arthritis and ankylosing spondylitis.

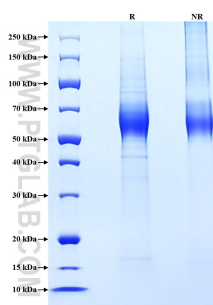
References

1. Mezghiche I, et al. (2024) Eur J Immunol. 54 (1):e2250348.
2. Peng LL, et al. (2017) Oncotarget. 8 (3):4849-4863.
3. Hamdy G, et al. (2015) Hum Immunol. 76 (6):417-20.

Synonyms

IL23R, IL 23 receptor, IL 23R, IL-23 receptor, IL-23R

Selected Validation Data



Purity of Recombinant Human IL-23R 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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