

For Research Use Only

Recombinant Human IL-5 protein (His Tag)



Catalog Number: Eg0380

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
His Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

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

Source:
HEK293-derived Human IL-5 protein Ile20-Ser134 (Accession# P05113-1) with a His tag at the C-terminus.

GeneID:
3567

Accession:
P05113-1

Predicted Molecular Mass:
17.5 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-5 (interleukin-5) is a key cytokine, secreted mainly by Th2 cells and mast cells, that plays an important role in the development, differentiation and activation of eosinophils. IL-5 promotes eosinophil maturation, survival and degranulation through signaling mediated by its receptor (IL-5R), thus playing a role in allergic reactions and inflammatory processes. In allergic diseases (e.g., asthma), elevated levels of IL-5 are associated with a large increase in eosinophils, making IL-5 a potential target for the treatment of these diseases. For example, anti-IL-5 monoclonal antibodies (e.g., mepolizumab and rilizumab) have been approved for the treatment of severe eosinophilic asthma. In addition, IL-5 plays a role in other eosinophil-associated diseases (e.g., nasal polyps) and may be involved in the regulation of the tumor microenvironment.

References

1. Jackson, David J et al. Allergy vol. 79,11 (2024): 2943-2952.

2. Douçã

Synonyms

IL5, B-cell differentiation factor 1, IL 5, Interleukin 5, Interleukin-5

Selected Validation Data

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

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