

Catalog Number: Eg1087

Basic Information

Species:
Rat**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 Rat IL-13 protein Thr19-His131 (Accession# P42203) with a His tag at the C-terminus.**GeneID:**
116553**Accession:**
P42203**Predicted Molecular Mass:**
13.4 kDa**SDS-PAGE:**
15-32 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 13 (IL-13) is an immunoregulatory cytokine produced primarily by activated Th2 cells. This cytokine is involved in several stages of B-cell maturation and differentiation. IL-13 up-regulates CD23 and MHC class II expression, and promotes IgE isotype switching of B cells. IL-13 inhibits the production of a series of cytokines like IL-1, IL-6, TNF-alpha, and IL-8 by activated human monocytes. IL-13 induces IFN-gamma production by NK cells. IL-13 is thought to be important cytokine in the pathogenesis of asthma, and more recently has been shown to play a pivotal role in a number of fibrotic diseases including hepatic and pulmonary fibrosis, and nodular sclerosing Hodgkin's disease.

References

1. Wynn TA. et al. (2003). *Annu Rev Immunol*. 21: 425-56.
2. Izuhara K. et al. (2006). *Curr Med Chem*. 13: 2291-8.
3. Corren J. et al. (2015). *Curr Allergy Asthma Rep*. 13: 415-20.
4. O'Reilly S. et al. (2013). *Biofactors*. 39: 593-6.

Synonyms

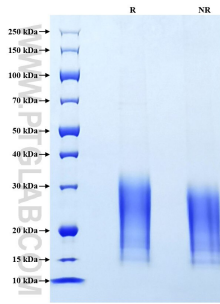
Il13, interleukin 13

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

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Selected Validation Data



Purity of Recombinant Rat IL-13 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.