

For Research Use Only

Recombinant Rat IL-17A protein (rFc Tag)



Catalog Number: Eg3339

Basic Information

Species:
Rat

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/ μ g protein, LAL method

Source:
HEK293-derived Rat IL-17A protein Ala18-Ser150 (Accession# Q61453) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
301289

Accession:
Q61453

Predicted Molecular Mass:
41.3 kDa

SDS-PAGE:
40-50 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μ m 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

IL17A, also named as IL-17, is a proinflammatory cytokine. IL-17, synthesized only by memory T cells and natural killer cells, has pleiotropic effects, mainly in the recruitment and activation of neutrophils. This cytokine regulates the activities of NF-kappaB and mitogen-activated protein kinases. This cytokine can stimulate the expression of IL6 and cyclooxygenase-2 (PTGS2/COX-2), as well as enhance the production of nitric oxide (NO). High levels of this cytokine are associated with several chronic inflammatory diseases including rheumatoid arthritis, psoriasis and multiple sclerosis. The IL-17 receptor is a type I transmembrane protein, that is widely expressed on epithelial cells, fibroblasts, B and T cells, and monocytic cells. In psoriatic skin lesions, both Th17 cells and their downstream effector molecules, e.g. IL-17 and IL-22, are highly increased.

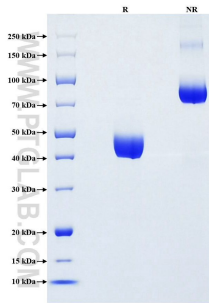
References

- 1.Hynes GM, et al.(2020) ERJ Open Res.6:00364-02019.
- 2.Chien JW, et al.(2013) Clin Exp Allergy.43:1018-1026.
- 3.Molet S, et al.(2001) J Allergy Clin Immunol.108:430-438.
- 4.Barczyk A. et al.(2003) Respir Med.97:726-733.
- 5.Lai T, et al.(2019) Am J Physiol Lung Cell Mol Physiol.316:L269-L279.

Synonyms

Il17a, IL-17A, Interleukin 17A

Selected Validation Data



Purity of Recombinant Rat IL-17A 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

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