

For Research Use Only

Recombinant Rat IL-12A protein (rFc Tag)



Catalog Number: Eg3823

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-12A protein Arg23-Ser215 (Accession# Q9R103) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

84405

Accession:

Q9R103

Predicted Molecular Mass:

48.0 kDa

SDS-PAGE:

50-60 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

Interleukin-12A (IL-12A), also known as p35, is a protein that plays a crucial role in the immune system. It is a subunit of the cytokine IL-12, which is a heterodimeric protein composed of two disulfide-linked subunits: IL-12A (p35) and IL-12B (p40). IL-12A is encoded by the IL12A gene located on chromosome 3 and is expressed in various cell types, including professional antigen-presenting cells such as B-cells, dendritic cells, macrophages, and granulocytes. The primary function of IL-12A is to regulate T-cell and natural killer-cell responses. It is particularly important for the production of interferon-gamma (IFN-gamma), the differentiation of T-helper 1 (Th1) cells, and serves as a link between innate resistance and adaptive immunity.

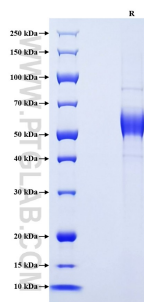
References

1. Wolf SF. et al. (1991) J Immunol. 146(9):3074-81.
2. Gubler U. et al. (1991) Proc Natl Acad Sci U S A. 88(10):4143-7.
3. Ullrich KA. et al. (2020) EXCLI J. 19:1563-1589.

Synonyms

CLMF p35, Cytotoxic lymphocyte maturation factor 35 kDa subunit, IL-12 subunit p35, IL12a, Interleukin-12 subunit alpha

Selected Validation Data



Purity of Recombinant Rat IL-12A was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.

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

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