

Recombinant Mouse IL-7 protein (rFc Tag)

Catalog Number: Eg3825

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

HEK293-derived Mouse IL-7 protein Met+Glu26-Ile154 (Accession# Q544C8) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

16196

Accession:

Q544C8

Predicted Molecular Mass:

41.3 kDa

SDS-PAGE:

45-52 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

IL-7 is one of the members of IL-2 superfamily. IL-7 is a hematopoietic growth factor secreted by stromal cells in the bone marrow and thymus. It is also produced by keratinocytes, dendritic cells, hepatocytes, neurons, and epithelial cells, but is not produced by normal lymphocytes. IL-7 plays an active role in the development, survival, maintaining and restoring homeostasis of mature T lymphocytes. It is also a key regulator of the commitment, survival, proliferation and maturation of B cells during development. Severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) infection can be a potent inducer of proinflammatory cytokines and chemokines which may defend against the infection, but may also mediate destructive lung injury. Elevated serum IL-7 levels, together with several other circulating cytokines and chemokines, has been found to be associated with the severity of Coronavirus Disease 19 (COVID-19).

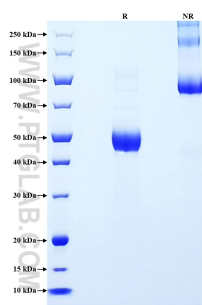
References

1. Steven A Corfe. et al. (2012) Semin Immunol. 24(3):198-208.
2. Sarah R Jacobs. et al. (2010) J Immunol. 184(7):3461-9.
3. C Heufler. et al. (1993) J Exp Med. 178(3):1109-14.
4. R Kröncke. et al. (1996) Eur J Immunol. 26(10):2541-4.
5. Yukihiisa Sawa. et al. (2009) Immunity. 30(3):447-57.
6. Pierre Francois Laterre. et al. (2020) JAMA Netw Open. 3(7):e2016485.

Synonyms

IL7, IL-7, IL 7, interleukin 7, interleukin-7

Selected Validation Data



Purity of Recombinant Mouse IL-7 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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