

Cynomolgus IL-7 Protein, His Tag (HPLC verified)

Catalog # IL7-C52H7



BIOSYSTEMS
Acro

Synonym

IL7, Interleukin-7

Source

Cynomolgus IL-7 Protein, His Tag (IL7-C52H7) is expressed from human 293 cells (HEK293). It contains AA Asp 26 - His 178 (Accession # [A0A2K5W745](#)).

Predicted N-terminus: Asp 26

Molecular Characterization

IL-7(Asp 26 - His 178)
A0A2K5W745

Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 19.4 kDa. The protein migrates as 21-23 kDa, 25-28 kDa and 30-33 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-HPLC.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

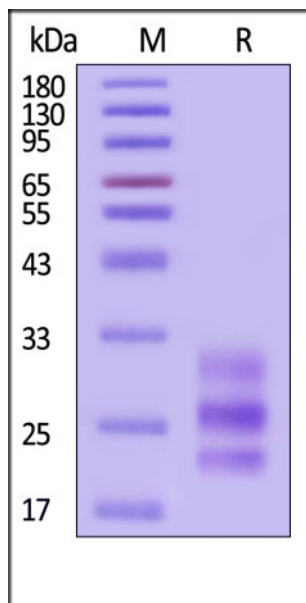
This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

ACRO Quality Management System

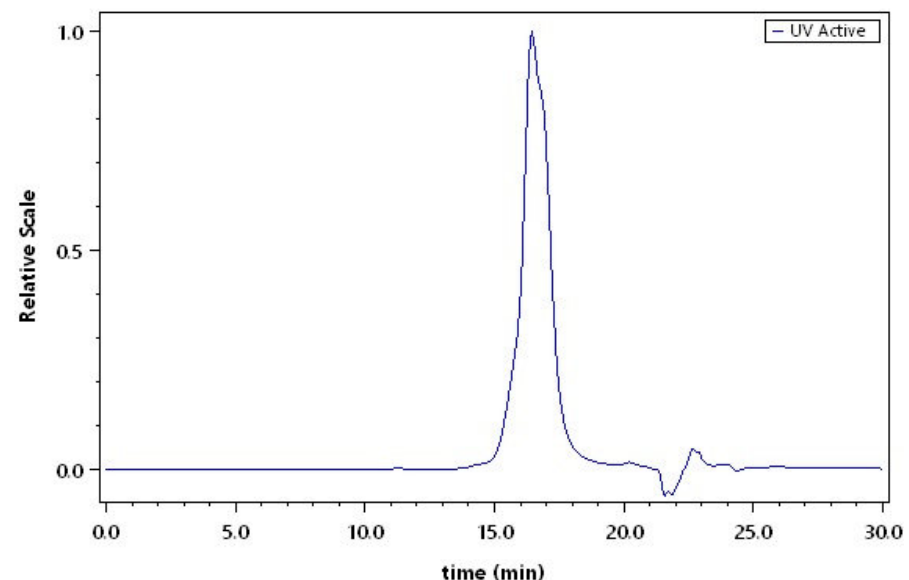
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



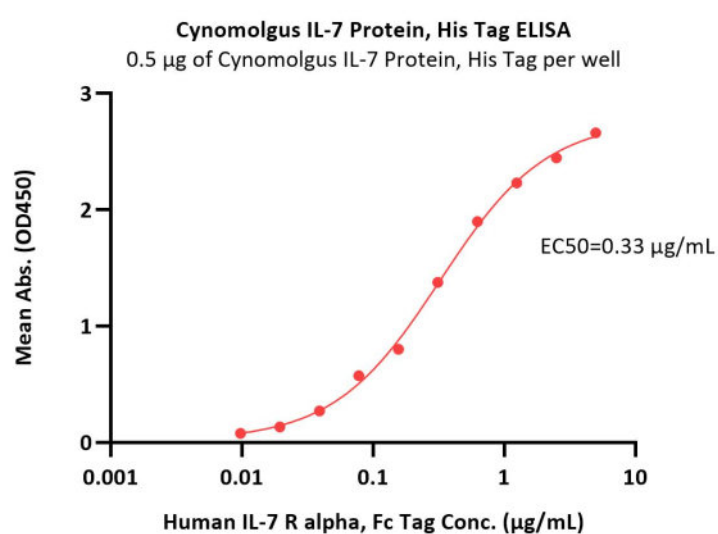
Cynomolgus IL-7 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-HPLC



The purity of Cynomolgus IL-7 Protein, His Tag (Cat. No. IL7-C52H7) was greater than 90% as determined by SEC-HPLC.

Bioactivity-ELISA



Immobilized Cynomolgus IL-7 Protein, His Tag (Cat. No. IL7-C52H7) at 5 µg/mL (100 µL/well) can bind Human IL-7 R alpha, Fc Tag (Cat. No. ILA-H525a) with a linear range of 0.01-1.25 µg/mL (QC tested).

Background

Interleukin 7 is also known as IL7, IL-7, and is a hematopoietic growth factor secreted by stromal cells in the red marrow and thymus. It is also produced by keratinocytes, dendritic cells, hepatocytes, neurons, and epithelial cells, but is not produced by lymphocytes. IL-7 stimulates the differentiation of multipotent (pluripotent) hematopoietic stem cells into lymphoid progenitor cells, It also stimulates proliferation of all cells in the lymphoid lineage (B cells, T cells and NK cells). It is important for proliferation during certain stages of B-cell maturation, T and NK cell survival, development and homeostasis. IL-7 is a cytokine important for B and T cell development. This cytokine and the hepatocyte growth factor (HGF) form a heterodimer that functions as a pre-pro-B cell growth-stimulating factor. IL-7 binds to the IL-7 receptor, a heterodimer consisting of Interleukin-7 receptor alpha and common gamma chain receptor. IL-7 promotes hematological malignancies (acute lymphoblastic leukemia, T cell lymphoma). Elevated levels of IL-7 have also been detected in the plasma of HIV-infected patients. IL-7 as an immunotherapy agent has been examined in many pre-clinical animal studies and more recently in human clinical trials for various malignancies and during HIV infection. IL-7 could also be beneficial in improving immune recovery after allogeneic stem cell transplant.

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