

# Cynomolgus IL-7 R alpha / CD127 Protein, His Tag (MALS verified)

Catalog # IL7-C52H8



## Synonym

IL7Ra, CD127

## Source

Cynomolgus IL-7 R alpha Protein, His Tag (IL7-C52H8) is expressed from human 293 cells (HEK293). It contains AA Glu 21 - Pro 240 (Accession # [Q38IC7](#)).

Predicted N-terminus: Glu 21

## Molecular Characterization

IL-7 R alpha(Glu 21 - Pro 240)  
Q38IC7

Poly-his

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

The protein has a calculated MW of 27.2 kDa. The protein migrates as 35-50 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under non-reducing (NR) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

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

## Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

## 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.**

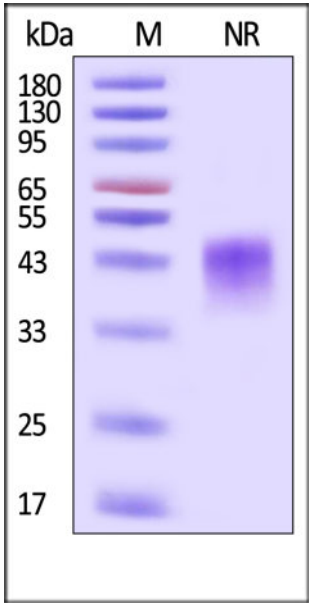
This product is stable after storage at:

- -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

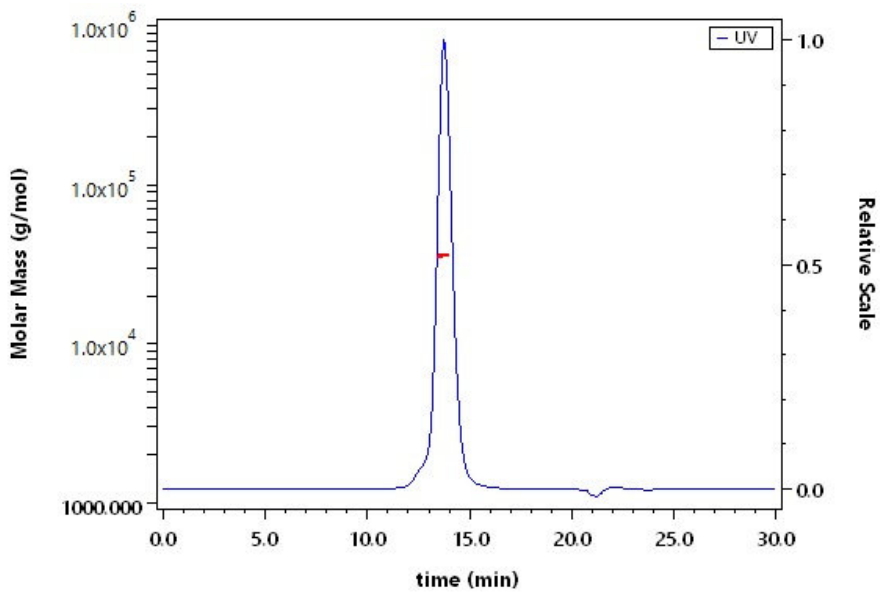
- [QMS\(ISO, GMP\)](#)
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



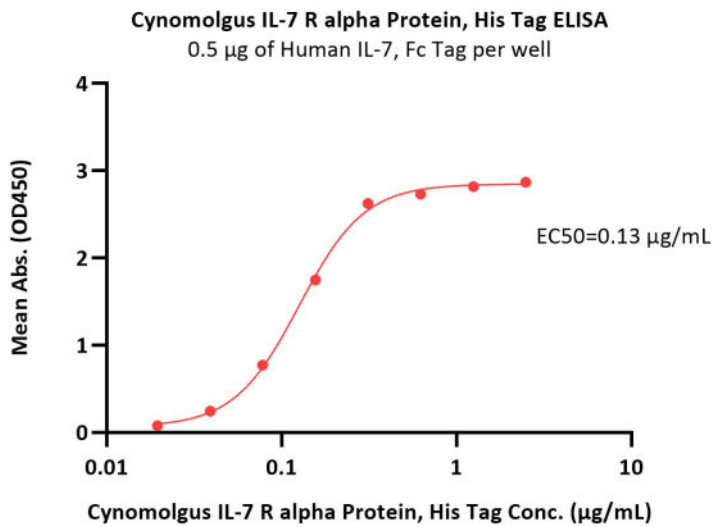
Cynomolgus IL-7 R alpha Protein, His Tag on SDS-PAGE under non-reducing (NR) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Cynomolgus IL-7 R alpha Protein, His Tag (Cat. No. IL7-C52H8) is more than 90% and the molecular weight of this protein is around 30-45 kDa verified by SEC-MALS.

Bioactivity-ELISA



Immobilized Human IL-7, Fc Tag (Cat. No. IL7-H5253) at 5 µg/mL (100 µL/well) can bind Cynomolgus IL-7 R alpha Protein, His Tag (Cat. No. IL7-C52H8) with a linear range of 0.02-0.313 µg/mL (QC tested).

Background

Interleukin-7 receptor subunit alpha (IL7Ra) is also known as CD antigen CD127, which belongs to the type I cytokine receptor family and type 4 subfamily. IL7Ra /CD127 contains 1 fibronectin type-III domain. IL7Ra /CD127 is expressed on various cell types, including naive and memory T cells and many others. IL7Ra /CD127 is receptor for interleukin-7 and also acts as a receptor for thymic stromal lymphopoietin (TSLP). The IL7 receptor is a heterodimer of IL7R and IL2RG. The TSLP receptor is a heterodimer of CRLF2 and IL7R.



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