



Synonyms

CD7, GP40, TP41, LEU-9, Tp40

Source

Cynomolgus CD7 Protein, Llama IgG2b Fc Tag (CD7-C5253) is expressed from human 293 cells (HEK293). It contains AA Ala 26 - Pro 180 (Accession # [A0A2K5VA18](#)).

Predicted N-terminus: Ala 26

Molecular Characterization

CD7(Ala 26 - Pro 180) A0A2K5VA18	LlamaFc(Glu 1 - Ser 243) AAX73259.1
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This protein carries a llama IgG2b Fc tag at the C-terminus.

The protein has a calculated MW of 44.4 kDa. The protein migrates as 60-65 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 0.01 EU per µg by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

>95% 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.

Shipping and Storage

This product is shipped at ambient temperature.

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

Please avoid repeated freeze-thaw cycles.

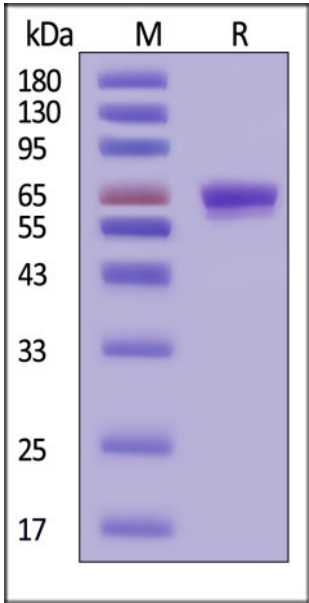
This product is stable after storage at:

- -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

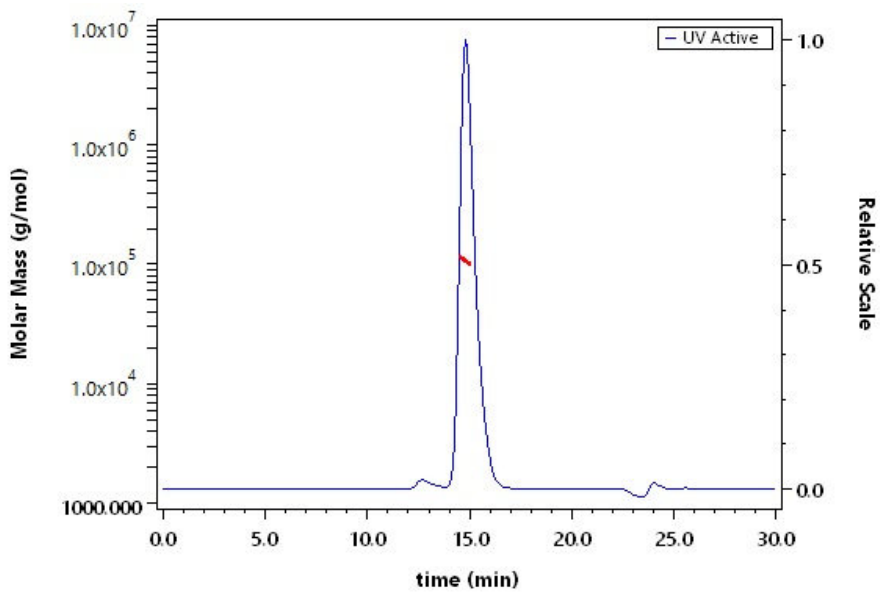
- [QMS\(ISO, GMP\)](#).
- [Quality Advantages](#)
- [Quality Control Process](#)

SDS-PAGE



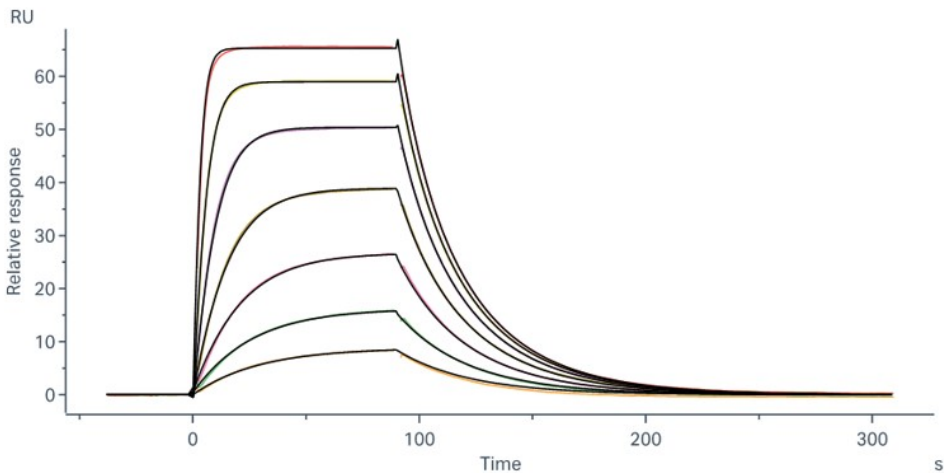
Cynomolgus CD7 Protein, Llama IgG2b Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Cynomolgus CD7 Protein, Llama IgG2b Fc Tag (Cat. No. CD7-C5253) is more than 95% and the molecular weight of this protein is around 90-125 kDa verified by SEC-MALS.

Bioactivity-SPR



Cynomolgus CD7 Protein, Llama IgG2b Fc Tag (Cat. No. CD7-C5253) immobilized on CM5 Chip can bind Human SECTM1, His Tag (Cat. No. SE1-H5227) with an affinity constant of 24 nM as determined in a SPR assay (Biacore 8K) (QC tested).

Background

T-cell antigen CD7 (CD7) is also known as GP40, LEU-9, TP41 and Tp40. CD7 is a protein that in humans is encoded by the CD7 gene, this gene encodes a transmembrane protein which is a member of the immunoglobulin superfamily. CD7 has been shown to interact with PIK3R1. This protein is found on thymocytes and mature T cells. It plays an essential role in T-cell interactions and also in T-cell/B-cell interaction during early lymphoid development.

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