



### Synonym

CD7,GP40,TP41,LEU-9,Tp40

### Source

Cynomolgus CD7 Protein, His Tag(CD7-C52H7) is expressed from human 293 cells (HEK293). It contains AA Ala 26 - Ser 177 (Accession # [A0A2K5VA18](#)).

Predicted N-terminus: Ala 26

### Molecular Characterization

CD7(Ala 26 - Ser 177)	A0A2K5VA18	Poly-his
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This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 17.9 kDa. The protein migrates as 27-40 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  $\mu$ g by the LAL method / rFC method.

### Purity

>90% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

### Formulation

Lyophilized from 0.22  $\mu$ m 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

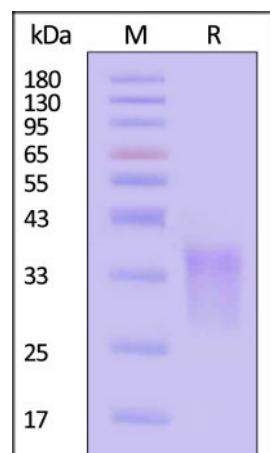
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

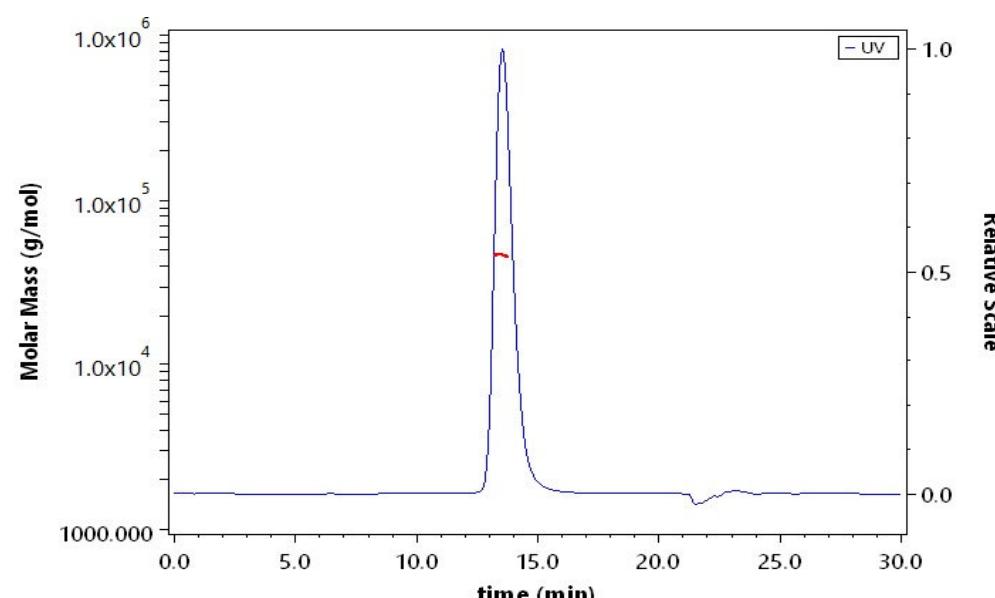
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

### SDS-PAGE



Cynomolgus CD7 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 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

### SEC-MALS



The purity of Cynomolgus CD7 Protein, His Tag (Cat. No. CD7-C52H7) is more than 95% and the molecular weight of this protein is around 40-50 kDa verified by SEC-MALS.

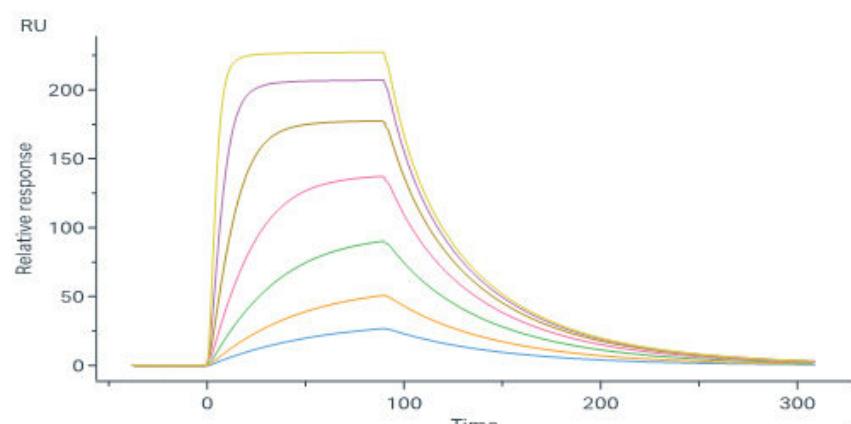
[Report](#)

### Bioactivity-SPR

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Cynomolgus CD7 Protein, His Tag (Cat. No. CD7-C52H7) immobilized on CM5 Chip can bind Human SECTM1, His Tag (Cat. No. SE1-H5227) with an affinity constant of 24.7 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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