

**Synonym**

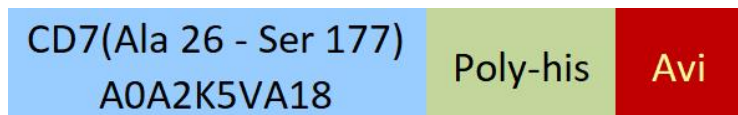
CD7,GP40,TP41,LEU-9,TP40

**Source**

Biotinylated Cynomolgus CD7 Protein, His,Avitag(CD7-C82E8) is expressed from human 293 cells (HEK293). It contains AA Ala 26 - Ser 177 (Accession # [A0A2K5VA18](#) ).

Predicted N-terminus: Ala 26

**Molecular Characterization**



This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™)

The protein has a calculated MW of 19.6 kDa. The protein migrates as 30-40 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Labeling**

*Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.*

**Protein Ratio**

Passed as determined by the HABA assay / binding ELISA.

**Endotoxin**

Less than 1.0 EU per µg by the LAL 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**

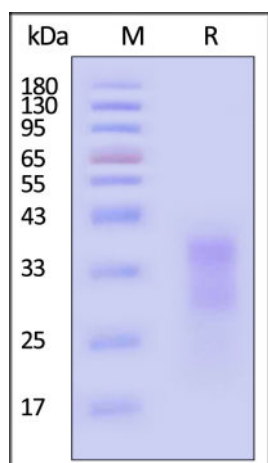
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*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.

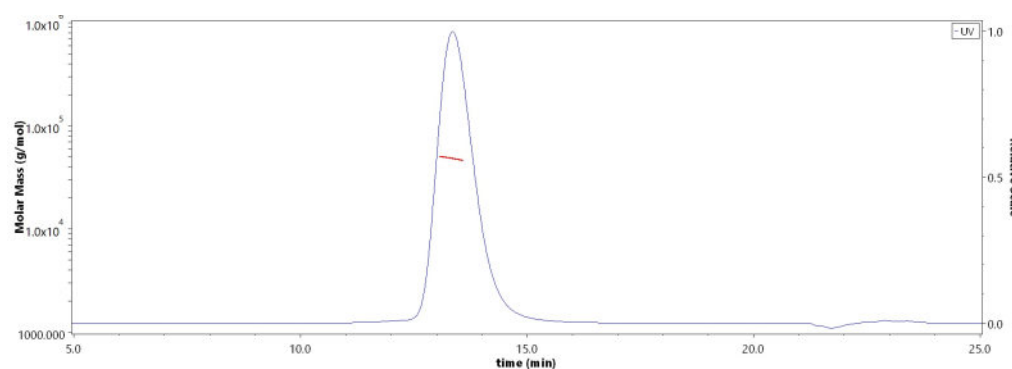
**SDS-PAGE**



Biotinylated Cynomolgus CD7 Protein, His,Avitag 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](#)).

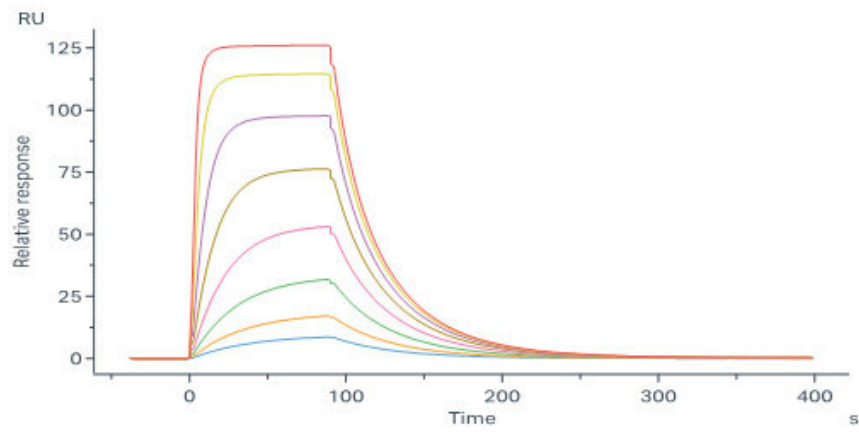
**Bioactivity-SPR**

**SEC-MALS**



The purity of Biotinylated Cynomolgus CD7 Protein, His,Avitag (Cat. No. CD7-C82E8) is more than 90% and the molecular weight of this protein is around 43-53 kDa verified by SEC-MALS.

[Report](#)



Biotinylated Cynomolgus CD7 Protein, His,Avitag (Cat. No. CD7-C82E8) immobilized on CM5 Chip can bind Human SECTM1, His Tag (Cat. No. SE1-H5227) with an affinity constant of 12.4 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.

### **Clinical and Translational Updates**

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.