

Synonym

CD7,GP40,TP41,LEU-9,TP40

Source

Human CD7, His Tag(CD7-H52H7) is expressed from human 293 cells (HEK293). It contains AA Ala 26 - Pro 180 (Accession # [P09564-1](#)).

Predicted N-terminus: Ala 26

Molecular Characterization

CD7(Ala 26 - Pro 180) P09564-1	Poly-his
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This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 18.3 kDa. The protein migrates as 26-35 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

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.

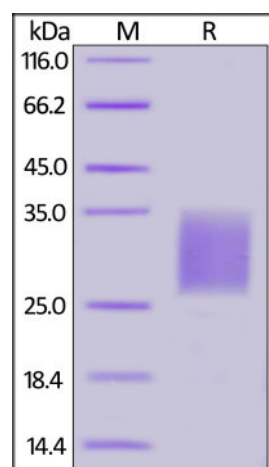
Storage

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

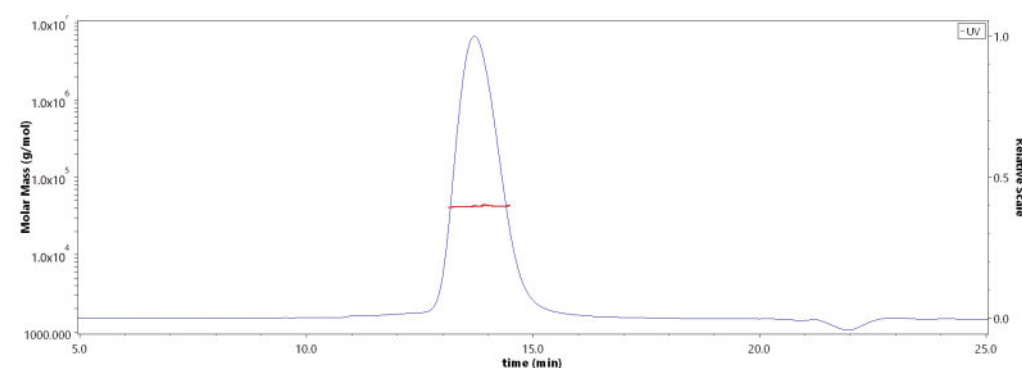
Please avoid repeated freeze-thaw cycles.

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.

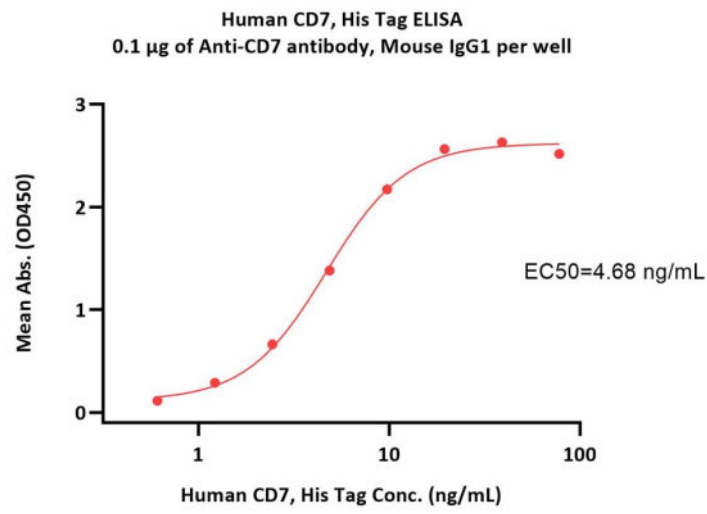
SDS-PAGE

Human CD7, 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%.

Bioactivity-ELISA**SEC-MALS**

The purity of Human CD7, His Tag (Cat. No. CD7-H52H7) is more than 90% and the molecular weight of this protein is around 35-50 kDa verified by SEC-MALS.

[Report](#)



Immobilized Anti-CD7 antibody, Mouse IgG1 at 1 µg/mL (100 µL/well) can bind Human CD7, His Tag (Cat. No. CD7-H52H7) with a linear range of 0.6-5 ng/mL (QC tested).

Bioactivity-FACS

CD7 FACS

2e5 of Anti-CD7 CAR-293 cells were stained with 100µL of 3µg/mL of Human CD7 Protein, His Tag (MALS verified)(Cat. No.CD7-H52H7) and negative control protein respectively, washed and then followed by His Tag PE-conjugated Antibody and analyzed with FACS (Routinely 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 if you have any question on this product.