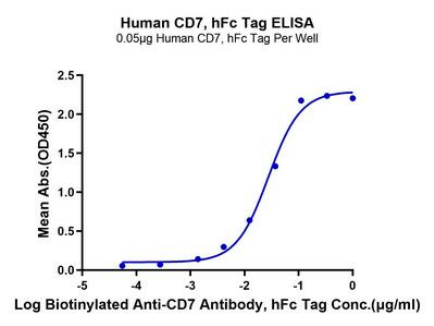
Bioactive | CellTx™ | HuPro®

CD7 (Human) Recombinant Protein

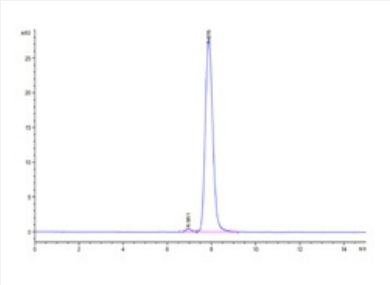
Catalog # P9719 Size 100 ug

Applications



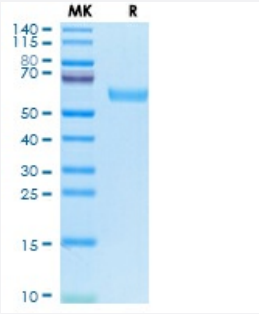
Enzyme-linked Immunoabsorbent Assay

Immobilized Human CD7, hFc Tag at 0.5 ug/mL (100 uL/well) on the plate. Dose response curve for Biotinylated Anti-CD7 Antibody, hFc Tag with the EC50 of 27.7 ng/mL determined by ELISA.



SEC-HPLC

The purity of Human CD7 is greater than 95% as determined by SEC-HPLC.



Tris-Bis PAGE

Human CD7 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

Specification

Product Description	Human CD7 (P09564, 26 a.a. - 180 a.a.) partial recombinant protein with hFc tag at C-terminus expressed in HEK293 cells.

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Sequence	AQEVQQSPHCTTVPVGASVNITCSTSGGLRGIYLRQLGPQPQDIIYYEDGVVPTTDRRFRGRIDFSG SQDNLTITMHRLQLSDTGTYTCQAITEVNVYGSGTLVLVTEEQSQGWHRCSDAPPRASALPAPPT GSALPDPQTASALPDPPAASALP
Host	Human
Theoretical MW (kDa)	43.19
Form	Lyophilized
Preparation Method	Mammalian cell (Expi293, high-yield transient HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The EC_{50} was 27.7 ng/mL, messured by ELISA at 0.5 ug/mL.
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human CD7 is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human CD7 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

Applications

- Functional Study
- Enzyme-linked Immunoabsorbent Assay

  Immobilized Human CD7, hFc Tag at 0.5 ug/mL (100 uL/well) on the plate. Dose response curve for Biotinylated Anti-CD7 Antibody, hFc Tag with the EC50 of 27.7 ng/mL determined by ELISA.
- SDS-PAGE

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Gene Info — CD7

Entrez GeneID	924
Protein Accession#	P09564
Gene Name	CD7
Gene Alias	GP40, LEU-9, TP41, Tp40
Gene Description	CD7 molecule
Omim ID	186820
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a transmembrane protein which is a member of the immunoglobulin superfamily. 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. [provided by RefSeq
Other Designations	CD7 antigen|CD7 antigen (p41)|T-cell antigen CD7|T-cell leukemia antigen|p41 protein

Pathway

- Hematopoietic cell lineage

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