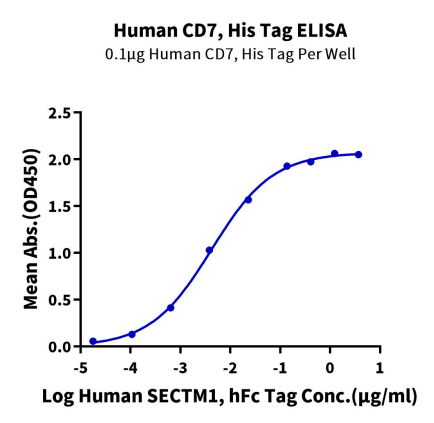
Bioactive CellTx™ HuPro®

CD7 (Human) Recombinant Protein

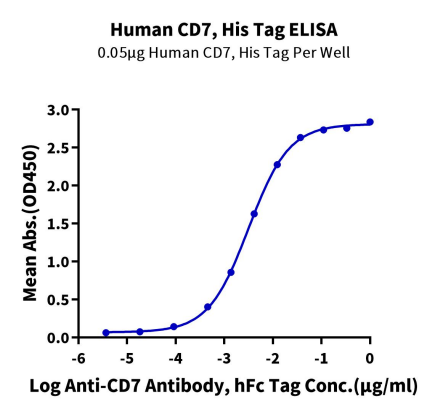
Catalog # P10282 Size 100 ug

Applications



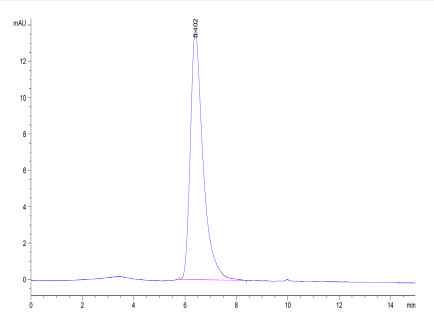
Enzyme-linked Immunoabsorbent Assay

Immobilized Human CD7, His Tag at 1 ug/ml (100 ul/Well) on the plate. Dose response curve for Human SECTM1, hFc Tag with the EC_{50} of 4.2 ng/ml determined by ELISA.



ELISA

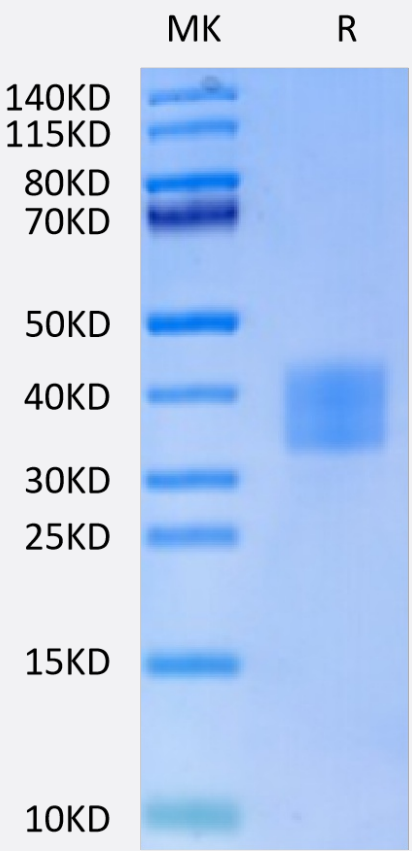
Immobilized Human CD7, His Tag at 0.5 ug/ml (100 ul/Well) on the plate. Dose response curve for Anti-CD7 Antibody, hFc Tag with the EC_{50} 3.2 ng/ml determined by ELISA (QC Test).



SEC-HPLC

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

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Tris-Bis PAGE

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

Specification

Product Description	Human CD7 (P09564, Ala26-Pro180) partial recombinant protein with His-Avi tag at C-terminus expressed in HEK293 cells.
Sequence	Ala26-Pro180
Host	Human
Theoretical MW (kDa)	19.3
Form	Lyophilized
Preparation Method	Mammalian cell (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)

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Quality Control Testing	ELISA and SEC-HPLC ELISA Immobilized Human CD7, His Tag at 0.5 ug/ml (100 ul/Well) on the plate. Dose response curve for Anti-CD7 Antibody, hFc Tag with the EC_{50} 3.2 ng/ml determined by ELISA (QC Test). 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 SEC-HPLC Tris-Bis PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from filtered solution in PBS, pH 7.4 (5% trehalose).
Storage Instruction	After reconstitution with deionized water to a final concentration more than 100 ug/ml, store at 4°C for 1 week. For long term storage, store at -80°C for 1 year. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- Enzyme-linked Immunoabsorbent Assay

  Immobilized Human CD7, His Tag at 1 ug/ml (100 ul/Well) on the plate. Dose response curve for Human SECTM1, hFc Tag with the EC_{50} of 4.2 ng/ml determined by ELISA.

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

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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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