

CD7 Protein, Rat (HEK293, Fc)

Cat. No.:	HY-P74273
Synonyms:	CD7; LEU-9; T-cell antigen CD7
Species:	Rat
Source:	HEK293
Accession:	B2RZ54 (Q23-P149)
Gene ID:	303747
Molecular Weight:	Approximately 45-60 kDa due to the glycosylation.

PROPERTIES

AA Sequence	<p>Q E V H Q S P R V V I A S E G E S I N I T C S T R G D L E G L I M K R I W P Q A</p> <p>S N V I Y F E D E L E P T V D S A F S G R I N F S G S Q K N L T I I M S L L Q E</p> <p>A D T G A Y T C E A V R K V S V H G L F T T V V V K E K L S H E A Y R S Q E P L</p> <p>Q T S V S L P</p>
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Rat CD7, at 0.5µg/mL (100µL/well) can bind Anti-CD7 antibody. The ED ₅₀ for this effect is 2.645µg/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	CD7 Protein is a transmembrane protein of the immunoglobulin superfamily found in thymocytes and mature T cells. It plays an important role in T cell interactions and T cell/B cell interactions during early lymphocyte development. CD7 can activate PI3K signaling pathway and participate in the activation of T and NK cells. CD7 is widely distributed in tumors and is considered to be a key factor in the treatment of T-cell acute lymphoblastic leukemia (T-ALL) and T-lymphoma ^{[1][2][3]} .
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Caution: Product has not been fully validated for medical applications. For research use only.

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