

CD5 Protein, Human (HEK293, His)

Cat. No.:	HY-P72920
Synonyms:	T-cell surface glycoprotein CD5; Ly-1; Lyt-1; CD5; Leu-1
Species:	Human
Source:	HEK293
Accession:	P06127 (R25-P372)
Gene ID:	921
Molecular Weight:	Approximately 48.9 kDa

PROPERTIES

AA Sequence	<pre> R L S W Y D P D F Q A R L T R S N S K C Q G Q L E V Y L K D G W H M V C S Q S W G R S S K Q W E D P S Q A S K V C Q R L N C G V P L S L G P F L V T Y T P Q S S I I C Y G Q L G S F S N C S H S R N D M C H S L G L T C L E P Q K T T P P T T R P P P T T T P E P T A P P R L Q L V A Q S G G Q H C A G V V E F Y S G S L G G T I S Y E A Q D K T Q D L E N F L C N N L Q C G S F L K H L P E T E A G R A Q D P G E P R E H Q P L P I Q W K I Q N S S C T S L E H C F R K I K P Q K S G R V L A L L C S G F Q P K V Q S R L V G G S S I C E G T V E V R Q G A Q W A A L C D S S S A R S S L R W E E V C R E Q Q C G S V N S Y R V L D A G D P T S R G L F C P H Q K L S Q C H E L W E R N S Y C K K V F V T C Q D P N P </pre>
Biological Activity	Immobilized Human CD5 at 2 µg/mL (100 µL/well) can bind Anti-CD5 Antibody. The ED ₅₀ for this effect is 19.66 ng/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	The CD5 Protein presents itself as a potential receptor implicated in the regulation of T-cell proliferation. Its interaction with
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CD72/LYB-2 and PTPN6/SHP-1 suggests a multifaceted role in modulating cellular processes. Acting as a receptor, this protein may play a pivotal part in orchestrating T-cell responses, mediating crucial interactions with other cellular components. The engagement with CD72/LYB-2 and PTPN6/SHP-1 underscores its involvement in intricate signaling pathways, hinting at its significance in the regulatory networks that govern T-cell behavior. Further exploration of the CD5 Protein's functions could provide valuable insights into the molecular mechanisms underlying T-cell proliferation and immune modulation.

Caution: Product has not been fully validated for medical applications. For research use only.

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