

CD2 Protein, Cynomolgus (HEK293, C-His)

Cat. No.:	HY-P75434A
Synonyms:	T-cell surface antigen CD2; LFA-2; CD2; SRBC
Species:	Cynomolgus
Source:	HEK293
Accession:	Q6SZ61 (K25-D209)
Gene ID:	102120798
Molecular Weight:	Approximately 33.91 kDa

PROPERTIES

AA Sequence	<div> <div>KEIRNALETW</div> <div>KKKIAQFRKE</div> <div>YKVSIIYDTKG</div> <div>TCEVMNGTDP</div> <div>KCTAGNKVSK</div> </div> <div> <div>GALGQDIDL</div> <div>KETFEEKDAY</div> <div>KNVLEKTFDL</div> <div>ELNLYQDGKH</div> <div>ESRMETVSCP</div> </div> <div> <div>IPSFQMSDDI</div> <div>KLFKNGTLKI</div> <div>KIQERVSEPK</div> <div>VKLSQRVITH</div> <div>EKGLD</div> </div> <div> <div>DDIRWEKTSD</div> <div>KHLKIHQDS</div> <div>ISWTCINTTL</div> <div>KWTTSLSAKF</div> </div>
Biological Activity	Measured by the ability of the immobilized protein to support the adhesion of Jurkat human T-lymphocyte leukemia cells. The ED ₅₀ this effect is 0.571 ng/mL, corresponding to a specific activity is 1.7513×10 ⁶ units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, 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	CD2 is a cell surface glycoprotein that plays a crucial role in mediating adhesion between T-cells and various cell types through interactions with lymphocyte function-associated antigen CD58 (LFA-3) and CD48/BCM1. Beyond its adhesive function, CD2 is implicated in triggering T-cell responses, with its cytoplasmic domain playing a role in signaling pathways. The protein interacts with CD48, CD58 (LFA-3), CD2AP, and PSTPIP1, contributing to a complex network of molecular
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interactions. Additionally, the interaction between CD2 and FCGR3A modulates NK cell activation and cytotoxicity, highlighting its diverse involvement in immune cell functions.

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

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