

CD2 Protein, Mouse (HEK293, His)

Cat. No.:	HY-P74323
Synonyms:	T-cell surface antigen CD2; LFA-3 receptor; LFA-2; CD2; SRBC
Species:	Mouse
Source:	HEK293
Accession:	NP_038514.1 (R23-S203)
Gene ID:	12481
Molecular Weight:	approximately 33.79 kDa

PROPERTIES

AA Sequence	<pre> RDNETIWGVL GHGITLNI PN FQMTDDIDEV RWVRRGTLVA EFKRKKPPFL ISETYEVL AN GSLKIKKPMM RNDSGTYNVM VYGTNGMTRL EKDL DVRI LE RVSKPVIHWE CPNTTTLTCAV LQGTDFELKL YQGETLLNSL PQKNMSYQWT NLSAPFKCEA INPVSKESKT EVVNCPEKGL S </pre>
Biological Activity	Measured by the ability of the immobilized protein to support the adhesion of Jurkat human T-lymphocyte leukemia cells. The ED ₅₀ for this effect is 383.6 ng/ml, corresponding to a specific activity is 2.607×10 ³ units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4 (Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.) or 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.
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, a cell surface glycoprotein, is involved in identical protein binding activity and plays a crucial role in various immune processes. Predicted to participate in T cell activation, heterotypic cell-cell adhesion, and positive regulation of cytokine production, CD2 is primarily located in cellular components such as cell-cell junctions and the external side of the plasma membrane. As an anchored component of the plasma membrane, CD2 exhibits biased expression in tissues related to the
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immune system, including the thymus and spleen, with notable expression levels, such as RPKM 30.1 and RPKM 18.0, respectively, indicating its significance in immune function and regulation.

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

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