

DNAM-1 Protein, Rat (HEK293, His)

Cat. No.:	HY-P76213
Synonyms:	CD226 antigen; DNAX accessory molecule 1; DNAM-1; CD226
Species:	Rat
Source:	HEK293
Accession:	D3ZS97 (E32-I265)
Gene ID:	307199
Molecular Weight:	Approximately 28 kDa.

PROPERTIES

AA Sequence	<pre> E E T L W D T T V R L S E T M T L E C V Y P L T D N L T Q A E W T K D T G T K K V N I A V Y H P N H N M H I D P N Y L H R V H F Q N A T V G F R N M S L S F Y N A S E A D I G I Y T C L F H A F P R G S W E K K I K V V Q S D S F E T T A P L D S Y L S A E P G Q N V T L S C Q L E R T W L V Q L V I W E K V Q P H Q V D I L A S C N L S Q G T R Y T S K Y L R Q T W S D C S Q E S M K S A L I I P Y A M A A D S G L Y R C R S E A S T G T N K T C V I R L I I T D G G T N N H F I </pre>
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Rat DNAM-1 at 1 µg/mL (100 µL/well) can bind biotinylated CD155 Protein. The ED ₅₀ for this effect is 7.119 ng/mL.
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.
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	The DNAM-1 protein is intricately involved in intercellular adhesion, lymphocyte signaling, cytotoxicity, and lymphokine secretion mediated by cytotoxic T-lymphocytes (CTL) and natural killer (NK) cells. Serving as a cell surface receptor for NECTIN2, DNAM-1, upon ligand binding, stimulates T-cell proliferation and the production of cytokines such as IL2, IL5, IL10,
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IL13, and IFNG. Furthermore, DNAM-1 competes with PVRIG for NECTIN2-binding, underscoring its regulatory role in cellular interactions and signaling pathways. This protein also interacts with PVR and NECTIN2, contributing to its multifaceted functions in immune responses and cellular communication.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA