

## DNAM-1 Protein, Human (229a.a, HEK293, His)

Cat. No.:	HY-P72668
Synonyms:	DNAX accessory molecule 1; DNAM-1; CD226 antigen; CD226
Species:	Human
Source:	HEK293
Accession:	Q15762 (E19-N247)
Gene ID:	10666
Molecular Weight:	43-55 kDa

### PROPERTIES

AA Sequence	<div> E E V L W H T S V P    F A E N M S L E C V    Y P S M G I L T Q V    E W F K I G T Q Q D  S I A I F S P T H G    M V I R K P Y A E R    V Y F L N S T M A S    N N M T L F F R N A  S E D D V G Y Y S C    S L Y T Y P Q G T W    Q K V I Q V V Q S D    S F E A A V P S N S  H I V S E P G K N V    T L T C Q P Q M T W    P V Q A V R W E K I    Q P R Q I D L L T Y  C N L V H G R N F T    S K F P R Q I V S N    C S H G R W S V I V    I P D V T V S D S G  L Y R C Y L Q A S A    G E N E T F V M R L    T V A E G K T D N </div>
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 <sub>2</sub> 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	<p>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, 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.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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