

DNAM-1 Protein, Human (HEK293, hFc, Myc)

Cat. No.:	HY-P700441
Synonyms:	CD226; CD226 molecule; CD226 antigen; DNAM 1; DNAM1; PTA1; TLIISA1; adhesion glycoprotein; DNAX accessory molecule 1; DNAX accessory molecule-1; platelet and T cell activation antigen 1; T lineage-specific activation antigen 1 antigen; DNAM-1;
Species:	Human
Source:	HEK293
Accession:	Q15762 (E19-N247)
Gene ID:	10666
Molecular Weight:	56.1 kDa

PROPERTIES

AA Sequence	<pre> 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 </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, 6% Trehalose, 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	<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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