PD-1 Protein, Canine (HEK293, Fc)

Cat. No.:	HY-P73341
Synonyms:	CD279; hPD-1; PDCD1; Programmed cell death 1; SLEB2
Species:	Canine
Source:	HEK293
Accession:	NP_001301026.1 (L25-V170)
Gene ID:	486213
Molecular Weight:	55-70 kDa

PROPERTIES

AA Sequence	L D S P D R P W S P L T F S P A Q L T V Q E G E N A T F T C S L A D I P D S F V L N W Y R L S P R N Q T D K L A A F Q E D R I E P G R D R R F R V T R L P N G R D F H M S I V A A R L N D S G I Y L C G A I Y L P P N T Q I N E S P R A E L S V T E R T L E P P T Q S P S P P P R L S G Q L Q G L V
Biological Activity	Immobilized Canine PD-1, hFc Tag at 1 μg/mL (100 μl/well) on the plate. Dose response curve for Human PD-L1, mFc Tag with the EC_{50} of 67.7 ng/mL determined by ELISA
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.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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	Programmed cell death protein 1 (PDCD1) is an immune-inhibitory receptor expressed in activated T cells which delivers inhibitory signals upon binding to ligands CD274/PDCD1L1 and CD273/PDCD1LG2. PDCD1 is involved in the regulation of T-cell functions, including those of effector CD8+ T cells, PDCD1 protein can also promote the differentiation of CD4+ T cells into T regulatory cells, playing a critical role in induction and maintenance of immune tolerance to self. PDCD1 is expressed in many types of tumors including melanomas, and has demonstrated to play a role in anti-tumor immunity. Moreover,

PDCD1 is involved in safeguarding against autoimmunity, however, it can also contribute to the inhibition of effective anti-tumor and anti-microbial immunity as the PDCD1-mediated inhibitory pathway is exploited by tumors to attenuate anti-tumor immunity and escape destruction by the immune system, thereby facilitating tumor survival[1][2].

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

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