

PD-1 Protein, Rhesus Macaque (HEK293, Fc)

Cat. No.:	HY-P73349
Synonyms:	CD279; hPD-1; PDCD1; Programmed cell death 1; SLEB2
Species:	Rhesus Macaque
Source:	HEK293
Accession:	B0LAJ2 (M1-Q167)
Gene ID:	100135775
Molecular Weight:	Approximately 42.7 kDa

PROPERTIES

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

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