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**Product Data Sheet**


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Product Name: PDCD1 Human, Active  
 Cat. No.: GP26321  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	HEK293 Cells.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	Programmed cell death protein 1, CD279, hPD-1, SLEB2, hPD-I, hSLE1, PD-1, PD1, PDCD1.		
Amino Acid Sequence	PGWFLDSPDR PWNPPTFSPA LLVVTEGDNA TFTCSFSNTS ESFVLNWYRM SPSNQTDKLA AFPEDRSQPG QDCRFRVTQL PNGRDFHMSV VRARRNDSGT YLCGAISLAP KAQIKESLRA ELRVTERRAE VPTAHPSPSP RPAGQFQTLV LEPKSCDKTH TCPPCPAPEL LGGPSVFLFP PKPKDTLMIS RTPEVTCVVV DVSHEDPEVK FNWYVDGVEV HNAKTKPREE QYNSTYRVVS VLTVLHQDWL NGKEYKCKVS NKALPAPIEK TISKAKGQPR EPQVYTLPPS RDELTKNQVS LTCLVKGFYP SDIAVEWESN GQPENNYKTT PPVLDSDGSF FLYSKLTVDK SRWQQGNVFS CSVMHEALHN HYTQKSLSL S PGK		
Formulation	The PDCD1 solution (0.5mg/1ml) contains phosphate buffered saline (pH7.4) and 10% glycerol.		

**Introduction**

PDCD1 is a cell surface membrane protein of the immunoglobulin superfamily. PDCD1 is expressed in pro-B-cells and is thought to have a role in their differentiation. In mice, expression of PDCD1 gene is induced in the thymus when anti-CD3 antibodies are injected and large numbers of thymocytes undergo apoptosis. Mice deficient for the PDCD1 gene bred on a BALB/c background developed dilated cardiomyopathy and died from congestive heart failure. These studies suggest that the PDCD1 gene product may also be important in T cell function and contribute to the prevention of autoimmune diseases.

**Biological Activity**

Measured by its binding ability in a functional ELISA with Human PD-L1/B7-H1

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

PDCD1 Human Recombinant produced in HEK293 Cells is a single, glycosylated polypeptide chain containing 383 amino acids (21-170 a.a) and having a molecular mass of 42.9kDa. PDCD1 is fused to a 233 amino acid hlgG-His-Tag at C-terminus & purified by proprietary chromatographic techniques.

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