

Recombinant Human PDCD1, Fc-tagged

Cat. No. PDCD1-188H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The extracellular domain of human CD279 [PD-1] (aa 25-167) is fused to the N-terminus of the Fc region of human IgG1.
Species	Human
Source	CHO
ProteinLength	25-167 a.a.
Description	CD279 (Programmed Cell Death Protein 1; PD-1) is a type I transmembrane protein belonging to the CD28/CTLA-4 family of immunoreceptors that mediate signals for regulating immune responses. Members of the CD28/CTLA-4 family have been shown to either promote T cell activation (CD28 and ICOS) or downregulate T cell activation (CTLA-4 and PD-1). CD279 is expressed on activated T cells, B cells, myeloid cells and on a subset of thymocytes. In vitro, ligation of CD279 inhibits TCR-mediated T cell proliferation and production of IL-1, IL-4, IL-10 and IFN- γ . In addition, CD279 ligation also inhibits BCR mediated signaling. CD279 deficient mice have a defect in peripheral tolerance and spontaneously develop autoimmune diseases.
Form	Lyophilized from 0.2 μ m-filtered solution in PBS.
Purity	$\geq$ 98% (SDS-PAGE)
Stability	Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.

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Storage Short Term Storage: +4°C; Long Term Storage: -20°C. Avoid freeze/thaw cycles.

GENE INFORMATION

Gene Name [PDCD1 programmed cell death 1 \[Homo sapiens \]](#)

Official Symbol PDCD1

Synonyms PDCD1; programmed cell death 1; programmed cell death protein 1; CD279; PD1; protein PD-1; PD-1; SLEB2; hPD-1; hPD-I;

Gene ID [5133](#)

mRNA Refseq [NM_005018](#)

Protein Refseq [NP_005009](#)

MIM [600244](#)

UniProt ID [Q15116](#)

Chromosome Location 2q37.3

Pathway Adaptive Immune System, organism-specific biosystem; Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem; Costimulation by the CD28 family, organism-specific biosystem; Immune System, organism-specific biosystem; PD-1 signaling, organism-specific biosystem; T cell receptor signaling pathway, organism-specific biosystem;

Function protein binding; protein tyrosine phosphatase activity; signal transducer activity;

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