

Recombinant Human PDCD1 Protein, C-6His-Avi tagged, Biotinylated

Cat. No. PDCD1-15H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated Recombinant Human Programmed Cell Death Protein 1 is produced by our Mammalian expression system and the target gene encoding Pro21-Gln167 is expressed with a 6His, Avi tag at the C-terminus.
Species	Human
Source	Human Cells
ProteinLength	Pro21-Gln167
Description	Programmed cell death protein 1(PDCD1) is a single-pass type I membrane protein and contains 1 Ig-like V-type domain. PD-1 is a member of the extended CD28/CTLA-4 family of T cell regulators. PDCD1 inhibits the T-cell proliferation and production of related cytokines including IL-1, IL-4, IL-10 and IFN-γ by suppressing the activation and transduction of PI3K/AKT pathway. In addition, coligation of PDCD1 inhibits BCR-mediating signal by dephosphorylating key signal transducer. PDCD1 has been suggested to be involved in lymphocyte clonal selection and peripheral tolerance, and thus contributes to the prevention of autoimmune diseases. As a cell surface molecule, PDCD1 regulates the adaptive immune response. Engagement of PD-1 by its ligands PD-L1 or PD-L2 transduces a signal that inhibits T-cell proliferation, cytokine production, and cytolytic function.
Endotoxin	Less than 0.1 ng/ μ g (1 EU/ μ g)

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Storage Buffer	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Shipping	Ambient
Conjugation	Biotin
GENE INFORMATION	
Gene Name	PDCD1 programmed cell death 1 [Homo sapiens (human)]
Official Symbol	PDCD1
Synonyms	Programmed cell death protein 1; hPD-1; PDCD1; CD279
Gene ID	5133
mRNA Refseq	NM_005018
Protein Refseq	NP_005009
MIM	600244
UniProt ID	Q15116

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