

Recombinant Human PDCD1, His-tagged, Biotinylated

Cat. No. PDCD1-257H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human PD-1 /PDCD1 Protein, Biotinylated (Biotinylated PD-1 / PDCD1) Pro 21 - 167 Gln, was labeled with biotin based on rhPD1 Protein, which was produced in human 293 cells (HEK293).
Species	Human
Source	HEK293
ProteinLength	21-167 a.a.
Description	This gene encodes a cell surface membrane protein of the immunoglobulin superfamily. This protein is expressed in pro-B-cells and is thought to play a role in their differentiation. In mice, expression of this gene is induced in the thymus when anti-CD3 antibodies are injected and large numbers of thymocytes undergo apoptosis. Mice deficient for this gene bred on a BALB/c background developed dilated cardiomyopathy and died from congestive heart failure. These studies suggest that this gene product may also be important in T cell function and contribute to the prevention of autoimmune diseases.
Form	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally Trehalose are added as protectants before lyophilization.
Molecular Mass	Biotinylated PD-1 / PDCD1, fused with 6×His tag at the C-terminus, has a calculated MW of 17.3 kDa. The predicted N-terminus is Pro 21. DTT-reduced Protein migrates as 38-42 kDa due to glycosylation.

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Endotoxin	Less than 1.0 EU per µg of the Biotinylated PD-1 / PDCD1 by the LAL method.
Purity	>95% as determined by reduced SDS-PAGE.
Storage	Avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: In lyophilized state for 1 year (4°C); After reconstitution under sterile conditions for 3 months (-70°C).
Conjugation	Biotin

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

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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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