

## Active Recombinant Human PDCD1 Protein, Fc-Avi-His-tagged, Biotinylated

**Cat. No.** PDCD1-258H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Biotinylated Human PD-1 / PDCD1, His Tag & Fc Tag is expressed from HEK293 cells. It contains AA Leu 25 - Gln 167 (Accession # NP_005009). This protein carries a human IgG1 Fc fragment at the C-terminus, followed by a polyhistidine tag.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	25-167 a.a.
<b>Predicted N Terminal</b>	Leu 25
<b>Form</b>	Lyophilized from 0.22 um filtered solution in PBS, pH7.4, 10% trehalose.
<b>Bio-activity</b>	Immobilized Human PD-L1, Fc Tag at 5 ug/mL (100 ul/well), can bind Biotinylated Human PD-1, His Tag & Fc Tag with a linear range of 0.01-0.1 ug/mL. Flow Cytometry assay shows that recombinant Biotinylated Human PD-1, His Tag, Fc tag can bind to 293 cell overexpressing human PD-L1. The concentration of PD-1 used is 1ug/mL. FACS analysis shows that the binding of Biotinylated Human PD-1, His Tag, Fc tag to 293 overexpressing PD-L1 was inhibited by increasing concentration of neutralizing anti-PD-L1 antibody. The concentration of PD1 used is 1ug/mL. The IC50 is 0.362 ug/mL.
<b>Molecular Mass</b>	The Avi tag is inserted in-between the Fc and his tags. The protein has a calculated

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	MW of 44.4 kDa. The protein migrates as 50-66 kDa on a SDS-PAGE gel under reducing condition due to glycosylation and 100-130 kDa under non-reducing condition.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Purity</b>	>95% as determined by SDS-PAGE.
<b>Characteristic</b>	Biotinylation of this product is performed using Avitag technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin. The biotin to protein ratio is 0.5-1 as determined by the HABA assay.
<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -70°C.
<b>Storage</b>	For long term storage, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. No activity loss is observed after storage at: 4-8°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
<b>Conjugation</b>	Biotin

## GENE INFORMATION



<b>Gene Name</b>	PDCD1 programmed cell death 1 [ Homo sapiens ]
<b>Official Symbol</b>	PDCD1
<b>Synonyms</b>	PDCD1; programmed cell death 1; programmed cell death protein 1; CD279; PD1;

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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 Tel: 1-631-559-9269 1-516-512-3133 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA