

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

**Cat. No.** PDCD1-260H    **Lot. No.** (See product label)

### SPECIFICATION

|                             |                                                                                                                                                                                                            |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>     | Biotinylated Human PD-1, Fc Tag is expressed from HEK293 cells. It contains AA Leu 25 - Gln 167 (Accession # Q15116-1). This protein carries a human IgG1 Fc tag at the C-terminus, followed by a Avi 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, Fc Tag with a linear range of 20-320 ug/mL.                                                                     |
| <b>Molecular Mass</b>       | The protein has a calculated MW of 44.4 kDa. The protein migrates as 55-66 kDa under reducing condition (SDS-PAGE) due to glycosylation.                                                                   |
| <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.                                                                                                                                                                            |

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|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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>       | <a href="#">PDCD1</a> programmed cell death 1 [ Homo sapiens ]                                                        |
| <b>Official Symbol</b> | <a href="#">PDCD1</a>                                                                                                 |
| <b>Synonyms</b>        | PDCD1; programmed cell death 1; programmed cell death protein 1; CD279; PD1; protein PD-1; PD-1; SLEB2; hPD-1; hPD-I; |
| <b>Gene ID</b>         | <a href="#">5133</a>                                                                                                  |
| <b>mRNA Refseq</b>     | <a href="#">NM_005018</a>                                                                                             |
| <b>Protein Refseq</b>  | <a href="#">NP_005009</a>                                                                                             |

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| MIM | 600244 |
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| UniProt ID | Q15116 |
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