

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

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

SPECIFICATION

Product Overview	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.
Species	Human
Source	HEK293
ProteinLength	25-167 a.a.
Predicted N Terminal	Leu 25
Form	Lyophilized from 0.22 um filtered solution in PBS, pH7.4, 10% trehalose.
Bio-activity	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.
Molecular Mass	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.
Endotoxin	< 1.0 EU per μ g of the protein as determined by the LAL method.
Purity	>95% as determined by SDS-PAGE.
Characteristic	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.
Stability	Samples are stable for up to twelve months from date of receipt at -70°C.
Storage	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.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ μ l. Centrifuge the vial at 4°C before opening to recover the entire contents.
Conjugation	Biotin
GENE INFORMATION	
Gene Name	PDCD1 programmed cell death 1 [<i>Homo sapiens</i>]
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

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