

Active Recombinant Human PDCD1 Protein

Cat. No. PDCD1-01H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PDCD1 Protein was expressed in HEK293 cell
Species	Human
Source	HEK293
ProteinLength	Protein fragment
Description	Programmed cell death protein 1 (PDCD1) is an immune-inhibitory receptor expressed in activated T cells; it is involved in the regulation of T-cell functions, including those of effector CD8+ T cells. In addition, this protein can also promote the differentiation of CD4+ T cells into T regulatory cells. PDCD1 is expressed in many types of tumors including melanomas, and has demonstrated to play a role in anti-tumor immunity. Moreover, this protein has been shown to be involved in safeguarding against autoimmunity, however, it can also contribute to the inhibition of effective anti-tumor and anti-microbial immunity.
Form	Lyophilized
Bio-activity	Measured by its binding ability in a functional ELISA.
Molecular Mass	Expected molecular weight ~16 kD, observed molecular weight 30 kD in SDS-PAGE due to glycosylation of the protein.
AA Sequence	LDSPDRPWNP PTFSPALLVV TEGDNATFTC SFSNTSESV LNWYRMSPSN

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	QTDKLAAPFE DRSQPGQDCR FRVTQLPNGR DFHMSVVRAR RNDSGTYLCG AISLAPKAQI KESLRAELRV TERRAEVPTA HPSPSPRPAG QFQ
Endotoxin	< 0.010 Eu/g
Purity	> 95 % SDS-PAGE.
Applications	SDS-PAGE Functional Studies
Notes	FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES
Storage	Store at +4°C short term (1-2 weeks). Store at -20°C long term. Avoid freeze / thaw cycle. Constituent: PBS Lyophilized from 0.2µm-filtered solution. This product is an active protein and may elicit a biological response in vivo, handle with caution.
Storage Buffer	Lyophilized from 0.2µm-filtered solution.
Reconstitution	Reconstitute 50g vial with 100 µl sterile water to a concentration of 0.5 mg/ml. Add 1X PBS to the desired protein concentration. PBS containing at least 0.1% BSA should be used for further dilutions.
Shipping	Shipped at 4°C.

GENE INFORMATION

Gene Name	PDCD1 programmed cell death 1 [Homo sapiens (human)]
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Official Symbol	PDCD1
Synonyms	PD1; PD-1; CD279; SLEB2; hPD-1; hPD-I; hSLE1
Gene ID	5133
mRNA Refseq	NM_005018.3
Protein Refseq	NP_005009.2
MIM	600244
UniProt ID	Q15116

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