

Recombinant Human PDCD1 Protein (G22-V170), C-6xHis tagged

Cat. No. PDCD1-75H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human PD-1, extracellular domain is produced in E. coli. The final protein sequence contains G22-V170 of human PD1 fused to a polyhistidine tag on the carboxyl terminus. This product is sterile and does not contain any components of animal origin.
Species	Human
Source	E.coli
ProteinLength	G22-V170
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.
AA Sequence	MPGWFLDSPDRPWNPTTFSPALLVVTEGDNATFTCSFSNTSESFVLNWYRMSPSN QTDKLAAFPEDRSQPGQDCRFRVTQLPNGRDFHMSVVRARRNDSGTYLCGAISLA PKAQIKESLRAELRVTERRAEVPTAHPSPSPRPAGQFQTLVGSHHHHHH

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	> 95% by SDS-PAGE
Applications	Research in immunotherapy
Quality Control Test	Verified by disulfide mapping and Mass Spectrometry analysis.
Notes	For research use only
Storage	Avoid repeated freeze-thaw cycles. 12 months at -20 to -80 centigrade. 1 month at 2 to 8 centigrade.
Concentration	0.4 mg/mL
Storage Buffer	Sterile filtered through a 0.2 micron filter in 50% glycerol, 10 mM MES buffer at pH 6.5

GENE INFORMATION

Gene Name	PDCD1 programmed cell death 1 [Homo sapiens (human)]
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

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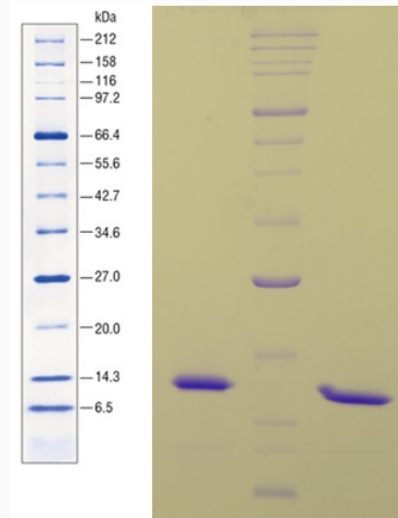
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MIM 600244

UniProt ID Q15116

SDS-PAGE



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