

Bioactive

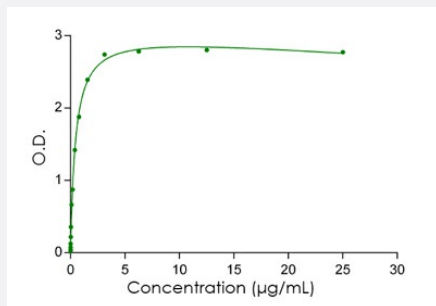
HuPro®

PDCD1 (Human) Recombinant Protein

Catalog # P7574

Size 1 mg

Applications



Result of bioactivity analysis

Result of bioactivity analysis

Specification

Product Description

Human PDCD1 (Q15116, 25 a.a. - 167 a.a.) partial recombinant protein with His tag at C-terminus expressed in HEK293 cell.

Sequence

LDSPDRPWNPTTFSPALLVVTEGDNATFTCSFSNTSESVLNWYRMSPSNQTDKLAAFPEDRS
QPGQDCRFRVTQLPNGRDFHMSVVRARRNDSTYLCAISLAPKAQIKESLRAELRVTERRAEV
PTAHPSPSPRPAGQFQ

Host

Mammals

Theoretical MW (kDa)

30-40

Form

Lyophilized

Preparation Method

Mammalian cell (HEK293) expression system

Purity

> 95% by SDS-PAGE

Endotoxin Level

< 0.2 EU per 1 ug of protein (determined by gel clotting method)

Activity

Immobilized PD-1, His, Human at 2.0 ug/mL can bind PD-L1 Fc Chimera, Human. Immobilized PD-1, His, Human at 0.5 ug/mL can bind Keytruda.

Storage Buffer

Lyophilized from sterile distilled Water up to 100 ug/mL

Storage Instruction

Store at 4°C to 8°C for 1 week. For long term storage store at -20°C to -80°C.
Aliquot to avoid repeated freezing and thawing.

Note

Result of bioactivity analysis
Result of bioactivity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — PDCD1

Entrez GeneID[5133](#)**Protein Accession#**[Q15116](#)**Gene Name**

PDCD1

Gene Alias

CD279, PD1, SLEB2, hPD-1, hPD-I

Gene Description

programmed cell death 1

Omim ID[152700 600244](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

This gene encodes a cell surface membrane protein of the immunoglobulin superfamily. This protein is expressed in pro-B-cells and is thought to play a role in their differentiation. In mice, expression of this gene is induced in the thymus when anti-CD3 antibodies are injected and large number of thymocytes undergo apoptosis. Mice deficient for this gene bred on a BALB/c background developed dilated cardiomyopathy and died from congestive heart failure. These studies suggest that this gene product may also be important in T cell function and contribute to the prevention of autoimmune diseases. [provided by RefSeq]

Other Designations

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Pathway

- [Cell adhesion molecules \(CAMs\)](#)
- [T cell receptor signaling pathway](#)

Disease

- [Addison Disease](#)
- [Alveolitis](#)
- [Arthritis](#)
- [Autoimmune Diseases](#)
- [Carcinoma](#)
- [Choriocarcinoma](#)
- [Colitis](#)
- [Crohn Disease](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Disease Susceptibility](#)
- [Genetic Predisposition to Disease](#)
- [Graves Disease](#)
- [Hydatidiform Mole](#)
- [Inflammation](#)
- [Kidney Diseases](#)
- [Leukemia](#)
- [Liver Cirrhosis](#)
- [Lupus Erythematosus](#)
- [Lupus Nephritis](#)
- [Mucocutaneous Lymph Node Syndrome](#)
- [Multiple Sclerosis](#)
- [Myocardial Infarction](#)
- [Neovascularization](#)

- [Polyendocrinopathies](#)
- [Spondylitis](#)
- [Uterine Cervical Neoplasms](#)
- [Uveomeningoencephalitic Syndrome](#)
- [Vasculitis](#)
- [Wegener Granulomatosis](#)