

Bioactive

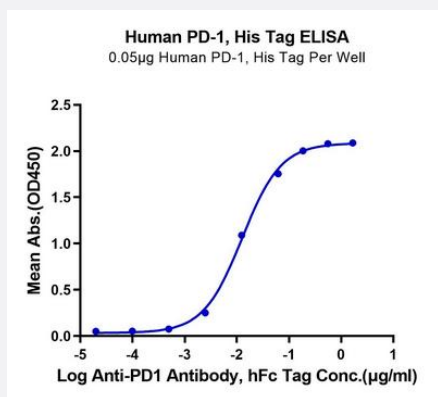
HuPro®

PDCD1 (Human) Recombinant Protein

Catalog # P9708

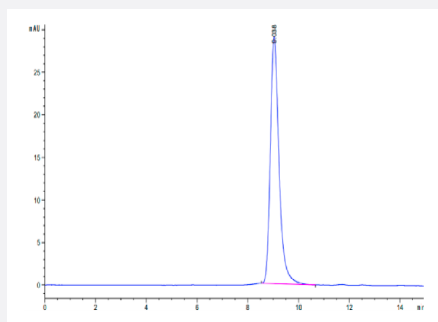
Size 100 ug

Applications



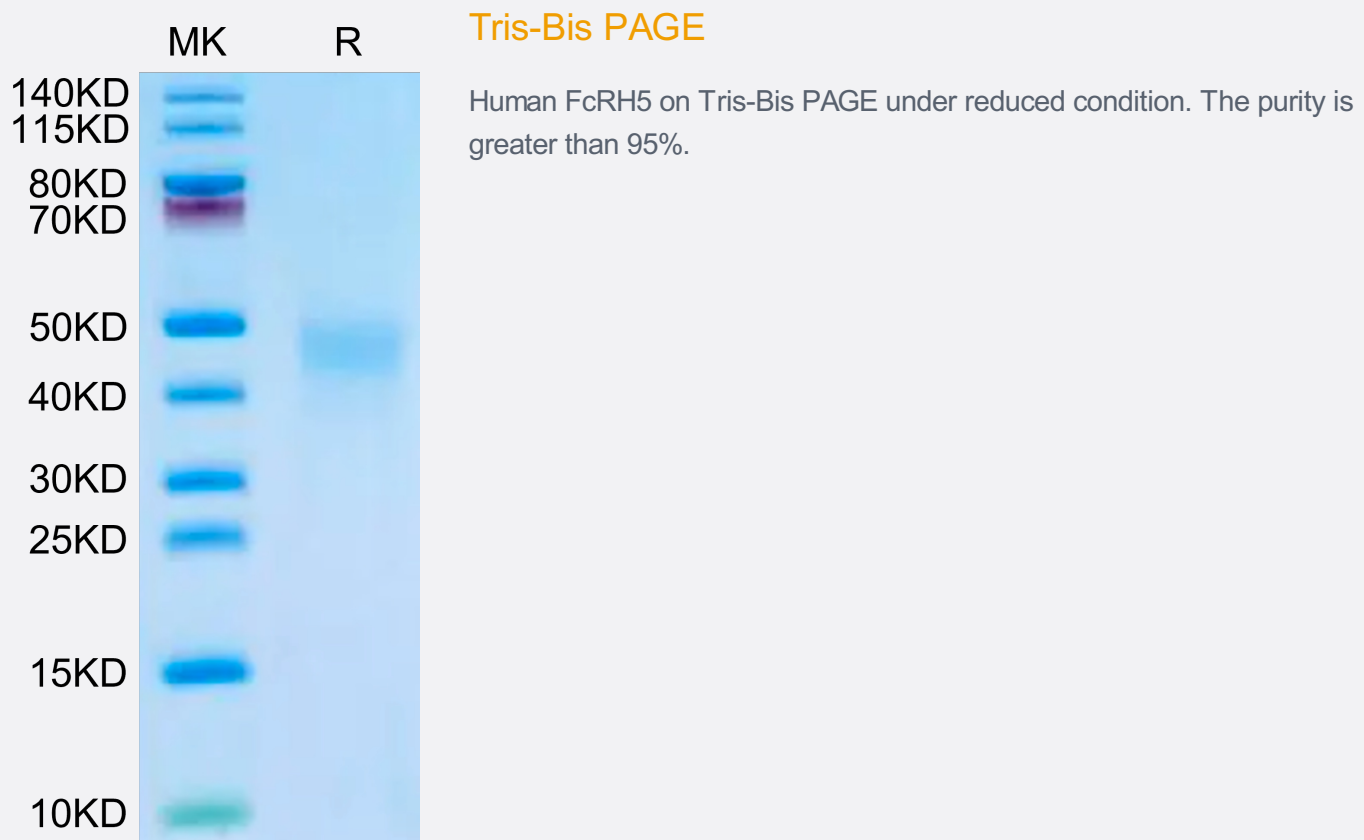
Enzyme-linked Immunoabsorbent Assay

Immobilized Human PD-1, His Tag at 0.5 ug/mL (100 uL/well) on the plate. Dose response curve for Anti-PD1 Antibody, hFc Tag with the EC50 of 12.7 ng/mL determined by ELISA.



SEC-HPLC

The purity of FITC-Labeled Human PD-1 is greater than 95% as determined by SEC-HPLC.



Specification

Product Description	Human PDCD1 (Q15116, 25 a.a. - 167 a.a.) partial recombinant protein with His tag at C-terminus expressed in Expi293 cells.
Sequence	LDSPDRPWNPPTFSPALLVVTEDGNATFTCSFSNTSESVLNWYRMSPSNQTDKLAAFPEDRS QPGQDCRFRVTQLPNGRDFHMSVVRARRNDSGYLCGAISLAPKAQIKESLRAELRVTERRAEV PTAHPSPSPRPAGQFQ
Host	Human
Theoretical MW (kDa)	17
Form	Liquid
Preparation Method	Mammalian cell (Expi293, high-yield transient HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The EC ₅₀ was 12.7 ng/mL, measured by ELISA at 0.5 ug/mL.

Quality Control Testing

SEC-HPLC and Tris-Bis PAGE

SEC-HPLC

The purity of FITC-Labeled Human PD-1 is greater than 95% as determined by SEC-HPLC.

Tris-Bis PAGE

Human FcRH5 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

Recommend Usage

Biological Activity

ELISA

SDS-PAGE

The optimal working dilution should be determined by the end user.

Storage Buffer

In PBS pH 7.4

Storage Instruction

Store at -80°C for 12 Month.

Aliquot to avoid repeated freezing and thawing.

Note

Result of bioactivity analysis

Applications

- Enzyme-linked Immunoabsorbent Assay

Immobilized Human PD-1, His Tag at 0.5 ug/mL (100 uL/well) on the plate. Dose response curve for Anti-PD1 Antibody, hFc Tag with the EC50 of 12.7 ng/mL determined by ELISA.

- 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](#)