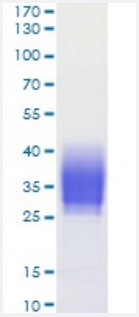
Bioactive HuPro® Sm Size

PD-1 (Human) Recombinant Protein

Catalog # P6774 Size 100 ug, 50 ug

Applications



PD-1 (Human) Recombinant Protein (Cat #P6774) was determined by SDS-PAGE with Coomassie Blue, showing a band at 30-40 kDa.

Result of activity analysis

Result of activity analysis

Specification

Product Description	Human PD-1 (NP_005009.2, 25 a.a. - 168 a.a.) partial recombinant protein with His tag at C_terminus expressed in HEK293 cells.
Host	Human
Theoretical MW (kDa)	30-40
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Ni-sepharose purification
Purity	> 97% by SDS-PAGE

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Endotoxin Level	< 0.1 EU/ug
Activity	Measured by the binding ability in a functional ELISA. Immobilized Recombinant Human PD-1 at 5 u g/mL (100 uL/well) can bind Recombinant Human PD-L1 with a linear range of 0.5-2 ug/mL.
Quality Control Testing	SDS-PAGE Stained with Coomassie Blue PD-1 (Human) Recombinant Protein (Cat #P6774) was determined by SDS-PAGE with Coomassie Blue, showing a band at 30-40 kDa.
Recommend Usage	SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from PBS, pH 7.4.
Storage Instruction	Store the lyophilized protein at -20°C to -80°C for long term. After reconstitution to a concentration of 0.1-0.5 mg/mL in sterile distilled water, the protein solution i s stable at -20°C for 3 months, at 2-8°C for up to 1 week. Aliquot to avoid repeated freezing and thawing.
Note	Result of activity analysis Result of activity analysis

Applications

- SDS-PAGE

Gene Info — PDCD1

Entrez GeneID	5133
Protein Accession#	Q15116
Gene Name	PDCD1
Gene Alias	CD279, PD1, SLEB2, hPD-1, hPD-l
Gene Description	programmed cell death 1
Omim ID	152700 600244
Gene Ontology	Hyperlink

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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 numbers 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	-

Publication Reference

- Anti-PD-1 Autoantibody Predicts Survival of Patients With Hepatocellular Carcinoma Receiving Atezolizumab/Bevacizumab.

  Yuki Sasaki, Kazuyuki Matsumoto, Akinobu Takaki, Takuya Adachi, Masahiro Takahara, Keita Ozato, Yasuto Takeuchi, Masahiko Sue, Nozomi Miyake, Nozomu Wada, Hideki Onishi, Hidenori Shiraha, Takashi Oda, Koichiro Tsutsumi, Kazuhiro Nouso, Kazuya Kariyama, Hiroaki Hagihara, Akio Moriya, Motoyuki Otsuka

  Gastro Hep Adv 2024 11; 3(8):1138-1147.

Pathway

- Cell adhesion molecules (CAMs)
- T cell receptor signaling pathway

Disease

- Addison Disease
- Alveolitis
- Arthritis
- Autoimmune Diseases
- Carcinoma
- Choriocarcinoma
- Colitis
- Crohn Disease

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- 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

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