

Recombinant Human PD-1/PDCD1 Protein (His Tag)

Catalog No. PKSH032861

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms Programmed cell death protein 1;PDCD1;PD-1;hPD-1;CD279;SLEB2;Hsle1

Species Human

Expression Host

Sequence

Pro21-Gln167

Accession

Q15116

Calculated Molecular Weight

17 kDa

Observed molecular weight

Tag

C-His

Bioactivity Immobilized Human PD-1-His at 2μg/ml (100 μl/well) can bind Anti-PD1 mAb.

The ED50 of Anti-PD1 mAb is 9.74 ng/ml.

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per μg of the protein as determined by the LAL method.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from a 0.2 μm filtered solution of 20mM Tris-HCl, 10% Trehalose,

100mM NaCl, 0.05% Tween 80, pH 7.5.

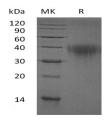
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

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Programmed cell death protein 1(PDCD1) is a single-pass type I membrane protein and contains 1 Ig-like V-type domain. PD-1 is a member of the extended CD28/CTLA-4 family of T cell regulators. PDCD1 inhibits the T-cell proliferation and production of related cytokines including IL-1; IL-4; IL-10 and IFN-γ by suppressing the activation and transduction of PI3K/AKT pathway. In addition; coligation of PDCD1 inhibits BCR-mediating signal by dephosphorylating key signal transducer. PDCD1 has been suggested to be involved in lymphocyte clonal selection and peripheral tolerance; and thus contributes to the prevention of autoimmune diseases. As a cell surface molecule; PDCD1 regulates the adaptive immune response. Engagement of PD-1 by its ligands PD-L1 or PD-L2 transduces a signal that inhibits T-cell proliferation; cytokine production; and cytolytic function.

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