

Recombinant Human PD-1 Catalog No: CX91

Description Recombinant Human Programmed Cell Death Protein 1 is produced by our Mammalian expression

system and the target gene encoding Leu25-Gln167 is expressed with a 6His tag at the C-terminus.

Source Human Cells

Alternative name Programmed cell death protein 1;hPD-1;PDCD1;CD279

Accession No. Q15116

Formulation Lyophilized from a 0.2 µm filtered solution of 20mM PB,150mM NaCl,pH7.2.

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. Reconstitution

It is not recommended to reconstitute to a concentration less than 100µg/ml.

Dissolve the lyophilized protein in distilled water.

Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Quality Control Purity: Greater than 90% as determined by reducing SDS-PAGE.

Endotoxin: Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test.

Shipping The product is shipped at ambient temperature.

Upon receipt, store it immediately at the temperature listed below.

Storage Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.

Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Amino Acid Sequence

Background

 $LDSPDRPWNPPTFSPALLVVTEGDNATFTCSFSNTSESFVLNWYRMSPSNQTDKLAAFPEDRSQPGQD\\ CRFRVTQLPNGRDFHMSVVRARRNDSGTYLCGAISLAPKAQIKESLRAELRVTERRAEVPTAHPSPSPRP\\$

AGQFQHHHHHH

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

Programmed cell death protein 1(PDCD1) is a single-pass type I membrane protein and contains 1 Ig-like

proliferation, cytokine production, and cytolytic function.



