

Product datasheet for TP726872

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PD1 (PDCD1) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant Human PDCD1/PD-1/CD279 (C-mFc)

Species: Human

Expression cDNA Clone

or AA Sequence:

Leu25-Gln167

Tag: C-mFc

Buffer: Lyophilized from a 0.2 um filtered solution of PBS,PH7.4.

Note: Recombinant Human Programmed Cell Death Protein 1 is produced by our Mammalian

expression system and the target gene encoding Pro21-Gln167 is expressed with a mFc tag at

the C-terminus.

Stability: 12 months from date of despatch

Locus ID: 5133 **UniProt ID:** Q15116

Summary: 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.

