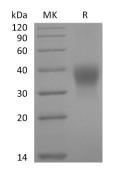


Summary

Name	PD-1/CD279/PDCD1/Programmed cell death protein 1
Purity	Greater than 95% as determined by reducing SDS-PAGE
Endotoxin level	<1 EU/µg as determined by LAL test.
Construction	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 6His tag at the C-terminus.
Accession #	Q15116
Host	Human Cells
Species	Human
Predicted Molecular Mass	17 KDa
Formulation	Lyophilized from a 0.2 µm filtered solution of 20mM Tris-HCl, 10% Trehalose, 100mM NaCl, 0.05% Tween 80, pH 7.5.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Stability&Storage	Store at \leq -70°C, stable for 6 months after receipt. Store at \leq -70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than $100\mu g/ml$. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than $100\mu g/ml$. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

SDS-PAGE image



Background



Alternative NamesProgrammed cell death protein 1; hPD-1; PDCD1; CD279BackgroundProgrammed 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.

Note

For Research Use Only, Not for Diagnostic Use.