Product Name: Recombinant Mouse PD-1 (C-Fc)

Catalog #: PHM1275



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 Mouse Programmed Cell Death Protein 1 is produced by our

Mammalian expression system and the target gene encoding Leu25-Gln167 is

expressed with a human IgG1 Fc tag at the C-terminus.

Accession # Q02242

Host Human Cells

Species Mouse

Predicted Molecular Mass 43.3 KDa

Formulation Lyophilized from a 0.2 µm filtered solution of 20mM Tris-HCl, 150mM NaCl, pH

8.0.

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

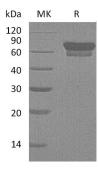
months under sterile conditions after opening. Please minimize freeze-thaw

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 100µg/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 100µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

SDS-PAGE image



Background

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Alternative Names

Programmed cell death protein 1;PD-1;CD279;Pdcd1;mPD-1

Background

Programmed Death-1 (PD-1), firstly cloned from mouse T cell hybridoma 2B4.11, is one member of CD28/CTLA-4 superfamily. PD-1 belongs to type I transmembrane protein and acts as an important immunosuppressive molecule. This family also include members of CD28, CTLA-4 and ICOS.The mouse Programmed Death-1 protein, encoded by PD-1 gene, comprises four parts including a putative 20 aa signal peptide, a 149 aa extracellular region, a 21 aa transmembrane domain and a 98 aa cytoplasmic region. The cytoplamsic tail of PD-1 contains two structural motifs, an immunoreceptor tyrosine-based inhibitory motif (ITIM) and an immunoreceptor tyrosine-based switch motif (ITSM) formed by two tyrosine residues which make the difference in PD-1 signal mediating. Mouse PD-1 is expressed in thymus and shares about 69% as sequence identity with human PD-1. Recently, programmed death-1 (PD-1) with its ligands, programmed death ligand B7H1 (PD-L1) and B7DC (PD-L2), was found to regulate T-cell activation and tolerance, upon ligand binding, inhibiting T-cell effector functions in an antigenspecific manner. PD-1 gene knocked out mice would induce some autoimmune diseases, which suggests that PD-1 acts as a co-inhibitory molecule actively participating in maintaining peripheral tolerance. Thus, PD-1 may be a useful target for the immunologic therapy of carcinoma, infection, autoimmune diseases as well as organ transplantation.

Note

For Research Use Only, Not for Diagnostic Use.

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