RP00659

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Recombinant Mouse PD-1/PDCD1/CD279 Protein

Catalog No.: RP00659 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	18566	Q02242

Tags
C-6×His

Synonyms
CD279;mPD-1;SLEB2;PDCD1;PD1;PD1/CD279/PDCD1;CD279;mPD-1;SLEB2;PDCD1;PD1;PD1/CD279/PDCD1

Product Information

Source
HEK293 cells

Purification
> 95% by SDS-PAGE.

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.2 μm filtered solution of 20mM Tris,150mM NaCl,pH8.0.Contact us for customized product form or formulation.

Reconstitution
Reconstitute to a concentration of 0.1-0.5 mg/mL in 1X PBS.

Background

Programmed Death-1 (PD-1), firstly cloned from mouse T cell hybridoma 2B4.11, is one member ofCD28/CTLA-4 superfamily. PD-1 belongs to type I transmembrane protein and acts as an importantimmunosuppressive molecule. The cytoplamsic tail of PD-1 contains two structural motifs, an immunoreceptortyrosine-based inhibitory motif (ITIM) and an immunoreceptor tyrosine-based switch motif (ITSM) formed bytwo tyrosine residues which make the difference in PD-1 signal mediating. Mouse PD-1 is expressed in thymusand shares about 69% aa sequence identity with human PD-1. Recently, programmed death-1 (PD-1) with itsligands, programmed death ligand B7H1 (PD-L1) and B7DC (PD-L2), was found to regulate T-cell activation andtolerance, upon ligand binding, inhibiting T-cell effector functions in an antigen-specific manner. PD-1 geneknocked out mice would induce some autoimmune diseases, which suggests that PD-1 acts as a co-inhibitorymolecule actively participating in maintaining peripheral tolerance. Thus, PD-1 may be a useful target for theimmunologic therapy of carcinoma,infection,autoimmune diseases as well as organ transplantation.

Basic Information

Description
Recombinant Mouse PD-1/PDCD1/CD279 Protein is produced by Human cells expression system. The target protein is expressed with sequence (Leu25-Gln167) of mouse PD-1/PDCD1/CD279 (Accession #Q02242) fused with a 6×His tag at the C-terminus.

Bio-Activity

Storage
Store the lyophilized protein at -20°C to -80 °C for long term.
After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

Contact

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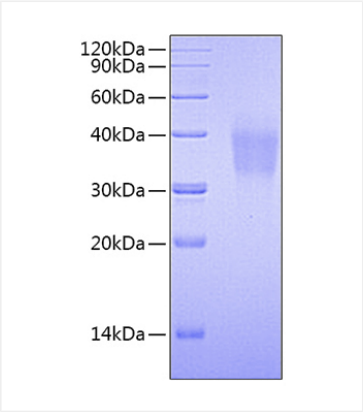
Validation Data



Recombinant Mouse PD-1/PDCD1/CD279 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.