

PD-1 Protein, Canine, Recombinant (aa 25-170, hFc)

General Information

Synonyms:	CD279;PDCD1;SLEB2;PD1;PD-1
Protein Construction:	Leu25-Val170
Species:	Canine
Expression Host:	HEK293 Cells
Accession:	NP_001301026.1
Molecular Weight:	43.00 kDa (predicted). Due to glycosylation, the protein migrates to 55-70 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	<ol style="list-style-type: none">1. Immobilized Canine PD-1, hFc Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Human PD-L1, mFc Tag with the EC50 of 30.7ng/ml determined by ELISA (QC Test).2. Canine PD-1, hFc Tag captured on CM5 Chip via ProtienA can bind Human PD-L1, His Tag with an affinity constant of 0.696 µM as determined in SPR assay.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:	Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.
Stability & Storage:	It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Programmed cell death protein 1, also known as PD-1 and CD279, is a protein found on the surface of cells that has a role in regulating the immune system's response to the cells of the human body by down-regulating the immune system and promoting self tolerance by suppressing T cell inflammatory activity.

Reference

Blank C , Mackensen A. Contribution of the PD-L1/PD-1 pathway to T-cell exhaustion: an update on implications for chronic infections and tumor evasion[J]. Cancer Immunology Immunotherapy, 2007, 56(5):739-745.

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481