

PD-1 Protein, Human, Recombinant (hFc) V2

General Information

Synonyms:	hSLE1;SLEB2;programmed cell death 1;PD-1;hPD-l;CD279;hPD-1;PD1
Protein Construction:	Leu25-Gln167
Species:	Human
Expression Host:	HEK293 Cells
Accession:	Q15116-1
Molecular Weight:	42.6 kDa (Predicted); 65-72 kDa (Due to glycosylation)

QC Testing

Biological Activity:	Immobilized Human PD-1, hFc Tag at 1 µg/ml (100 µl/Well). Dose response curve for Human PD-L1, mFc Tag with the EC50 of 0.1 µg/ml determined by ELISA. Human PD-1, hFc Tag captured on CM5 Chip via Protein A can bind Biotinylated Human PD-L2, His-Avi Tag with an affinity constant of 0.344 µM as determined in SPR assay (Biacore T200).
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 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized 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:

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.

Actual storage temperature shall be subject to the COA.

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.

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