

Recombinant Human PD-L1/B7-H1/CD274 Protein (His Tag)



Catalog Number:PKSH033557

Note: Centrifuge before opening to ensure complete recovery of vial contents.

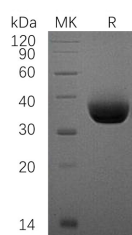
Description

| | |
|------------------------------------|---|
| Synonyms | Programmed Cell Death 1 Ligand 1;PD-L1;PDCD1 Ligand 1;Programmed Death Ligand 1;B7 Homolog 1;B7-H1;CD274;B7H1;PDCD1L1;PDCD1LG1;PDL1 |
| Species | Human |
| Expression Host | HEK293 Cells |
| Sequence | Phe19-Thr239 |
| Accession | Q9NZQ7 |
| Calculated Molecular Weight | 26.3 kDa |
| Observed molecular weight | 34-42 kDa |
| Tag | C-His |
| Bioactivity | Immobilized Anti-Human PDL1 mAb at 2µg/ml (100 µl/well)can bind Human PD-L1-His.The ED50 of Human PD-L1-6His is 5.57 ng/ml. |

Properties

| | |
|-----------------------|---|
| Purity | > 95 % as determined by reducing SDS-PAGE. |
| Endotoxin | < 1.0 EU per µg of the protein as determined by the LAL method. |
| Storage | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |
| Shipping | This product is provided as lyophilized powder which is shipped with ice packs. |
| Formulation | Lyophilized from a 0.2 µm filtered solution of 20mM PB, 4% Mannitol, 0.02% Tween 80, pH7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in |
| Reconstitution | Please refer to the printed manual for detailed information. |

Data



> 95 % as determined by reducing SDS-PAGE.

Background

CD274; also known as B7-H1 or programmed death ligand 1 (PD-L1); is a 40 kD type I transmembrane protein and a member of the B7 family within the immunoglobulin receptor superfamily. Programmed death-1 ligand-1 (PD-L1; CD274; B7-H1) has been identified as the ligand for the immunoinhibitory receptor programmed death-1(PD1/PDCD1) and has been demonstrated to play a role in the regulation of immune responses and peripheral tolerance. By binding to

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PD1 on activated T-cells and B-cells; PD-L1 may inhibit ongoing T-cell responses by inducing apoptosis and arresting cell-cycle progression. Accordingly; it leads to growth of immunogenic tumor growth by increasing apoptosis of antigen specific T cells and may contribute to immune evasion by cancers. PD-L1 thus is regarded as promising therapeutic target for human autoimmune disease and malignant cancers.

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