# Human PD-L2/B7-DC Protein

**Cat. No.** PDL-HM202

## Description

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|---|---|
| **Source** | Recombinant Human PD-L2/B7-DC Protein is expressed from HEK293 with hFc tag at the C-terminus. |
| | It contains Leu20-Thr220. |
| **Accession** | Q9BQ51 |
| **Molecular Weight** | The protein has a predicted MW of 48.60 kDa. Due to glycosylation, the protein migrates to 60-70 kDa based on Bis-Tris PAGE result. |
| **Endotoxin** | Less than 1EU per μg by the LAL method. |
| **Purity** | > 95% as determined by Bis-Tris PAGE |

## Formulation and Storage

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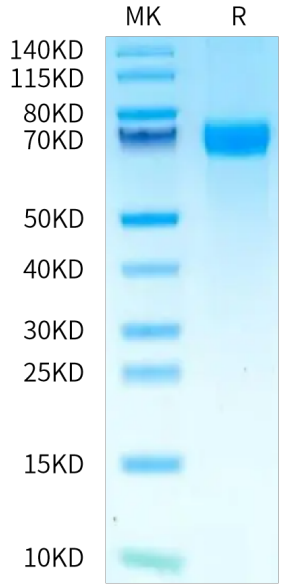
|---|---|
| **Formulation** | Supplied as 0.22 μm filtered solution in PBS (pH 7.4). |
| **Storage** | Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

## Background

PD-1 ligand 2 (PD-L2) as a second ligand for PD-1 and compare the function and expression of PD-L1 and PD-L2. Engagement of PD-1 by PD-L2 dramatically inhibits T cell receptor (TCR)-mediated proliferation and cytokine production by CD4 T cells. At low antigen concentrations, PD-L2-PD-1 interactions inhibit strong B7-CD28 signals.

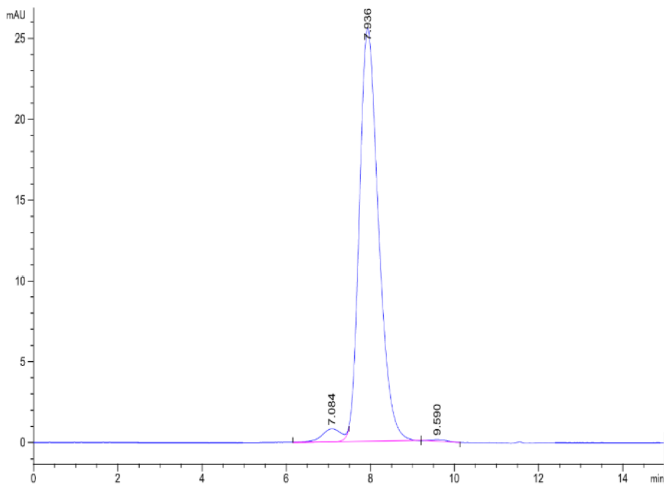
## Assay Data

**Bis-Tris PAGE**




Human PD-L2 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

**SEC-HPLC**




The purity of Human PD-L2 is greater than 95% as determined by SEC-HPLC.

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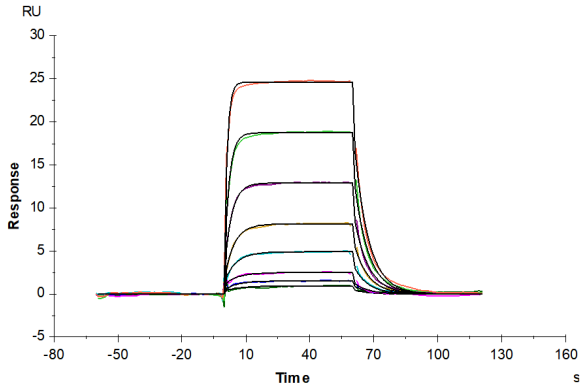
## Assay Data

### SPR Data




Human PD-L2, hFc Tag captured on CM5 Chip via Protein A can bind Human PD-1, His Tag with an affinity constant of 0.21 μM as determined in SPR assay (Biacore T200).