

# Human PD-L2/B7-DC Protein

Cat. No. PDL-HM402

## Description

|                         |   |
|-------------------------|---|
| <b>Source</b>           | Recombinant Human PD-L2/B7-DC Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.<br>It contains Leu20-Thr220. |
| <b>Accession</b>        | Q9BQ51  |
| <b>Molecular Weight</b> | The protein has a predicted MW of 25.3 kDa. Due to glycosylation, the protein migrates to 40-52 kDa based on Bis-Tris PAGE result.      |
| <b>Endotoxin</b>        | Less than 1EU per $\mu$ g by the LAL method.  |
| <b>Purity</b>           | > 95% as determined by Bis-Tris PAGE<br>> 95% as determined by HPLC   |

## Formulation and Storage

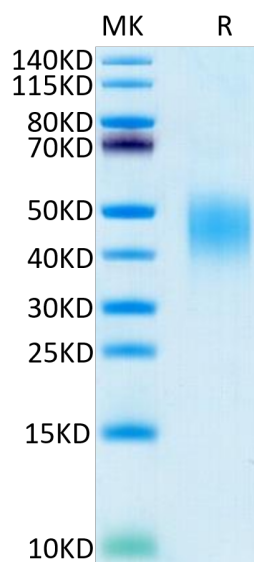
|                       |   |
|-----------------------|---|
| <b>Formulation</b>    | Lyophilized from 0.22 $\mu$ m filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.  |
| <b>Reconstitution</b> | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu$ g/ml is recommended. Dissolve the lyophilized protein in distilled water.   |
| <b>Storage</b>        | -20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. 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

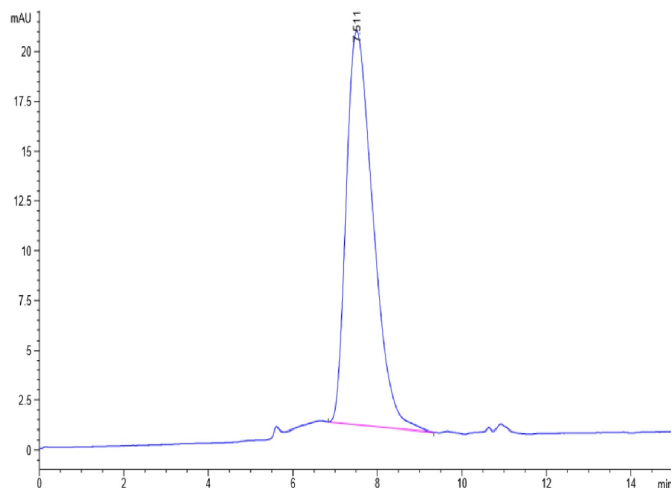
### Bis-Tris PAGE



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

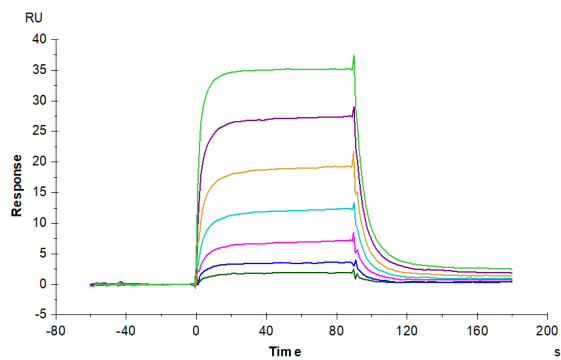
### SEC-HPLC

Assay Data



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

SPR Data



Human PD-1, hFc Tag captured on CM5 Chip via Protein A can bind Human PD-L2, His Tag with an affinity constant of 0.296  $\mu\text{M}$  as determined in SPR assay (Biacore T200).