

# Mouse PD-L1/B7-H1 Protein, Ultra Low Endotoxin

Cat. No. PDL-MM210-UL

## Description

|                         |                                                                                                                                    |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Source</b>           | Recombinant Mouse PD-L1/B7-H1 Protein is expressed from HEK293 with hFc (IgG1) tag at the C-Terminus.<br>It contains Phe19-Thr238. |
| <b>Accession</b>        | NP_068693                                                                                                                          |
| <b>Molecular Weight</b> | The protein has a predicted MW of 51.5 kDa. Due to glycosylation, the protein migrates to 70-80 kDa based on Bis-Tris PAGE result. |
| <b>Endotoxin</b>        | Less than 0.01 EU per µg by the LAL method.                                                                                        |
| <b>Purity</b>           | > 95% as determined by Bis-Tris PAGE<br>> 95% as determined by HPLC                                                                |

## Formulation and Storage

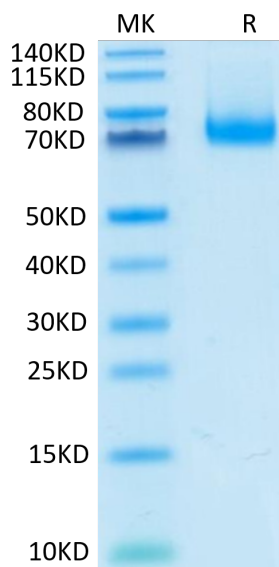
|                       |                                                                                                                                                                                                                         |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Formulation</b>    | Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.                                                                                          |
| <b>Reconstitution</b> | Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.                                                                                             |
| <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

B7-H1, also known as PD-L1 and CD274, is an approximately 65 kDa transmembrane glycoprotein in the B7 family of immune regulatory molecules. PD-L1 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.

## Assay Data

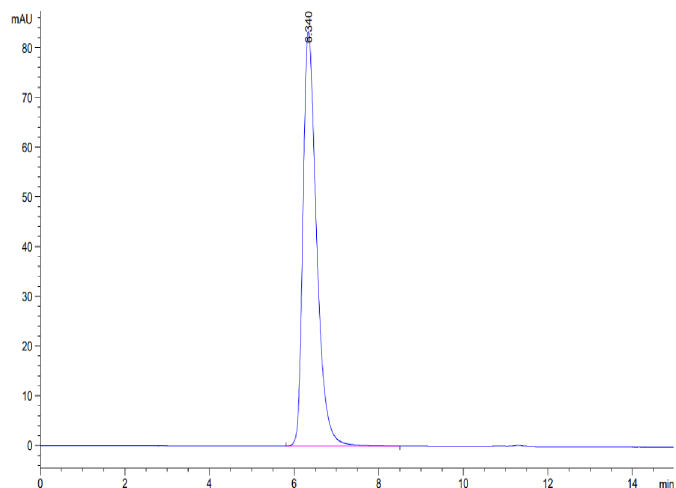
### Bis-Tris PAGE



Mouse PD-L1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

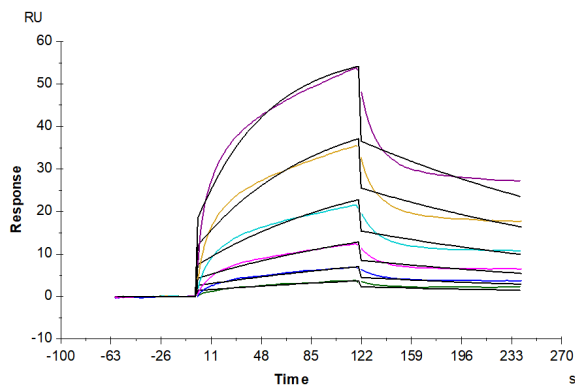
### SEC-HPLC

Assay Data



The purity of Mouse PD-L1 is greater than 95% as determined by SEC-HPLC.

SPR Data



Human PD-1, His Tag captured on CM5 Chip via anti-his antibody can bind Mouse PD-L1, hFc Tag with an affinity constant of 23.90 nM as determined in SPR assay (Biacore T200).