# Biotinylated Mouse PD-L1/B7-H1 Protein (Primary Amine Labeling)

**Cat. No.** PDL-MM110B

## Description

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|---|---|
| **Source** | Recombinant Biotinylated Mouse PD-L1/B7-H1 Protein (Primary Amine Labeling) is expressed from HEK293 with His tag at the C-Terminus. |
| | It contains Phe19-Thr238. |
| **Accession** | NP_068693 |
| **Molecular Weight** | The protein has a predicted MW of 25.9 kDa. Due to glycosylation, the protein migrates to 45-60 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 |
| | > 95% as determined by HPLC |

## Formulation and Storage

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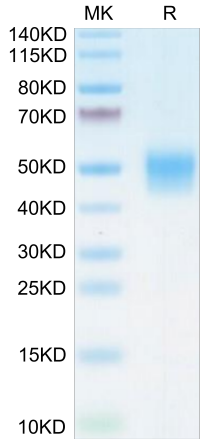
|---|---|
| **Formulation** | Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| **Reconstitution** | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water. |
| **Storage** | -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.

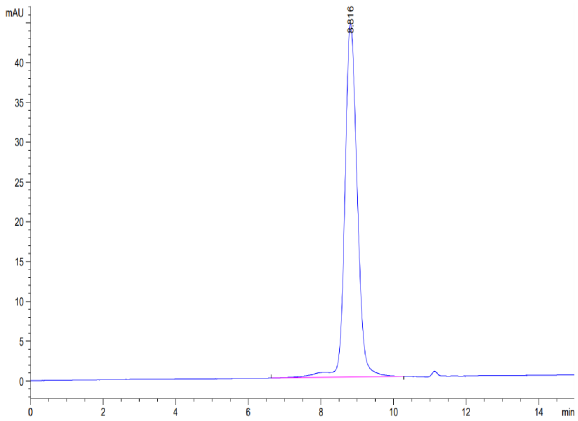
## Assay Data

### Bis-Tris PAGE




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

### SEC-HPLC




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

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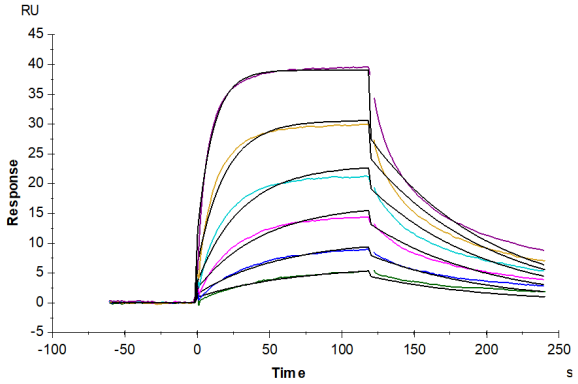
## Assay Data

### SPR Data




Biotinylated Mouse PD-L1, His Tag captured on CM5 Chip via anti-his antibody can bind Mouse PD-1 , hFc Tag with an affinity constant of 0.31 μM as determined in SPR assay (Biacore T200).