

Mouse PD-L1/B7-H1 Protein

Cat. No. PDL-MM110

Description

Source	Recombinant Mouse PD-L1/B7-H1 Protein is expressed from Expi293 with His tag at the C-terminal. 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 Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

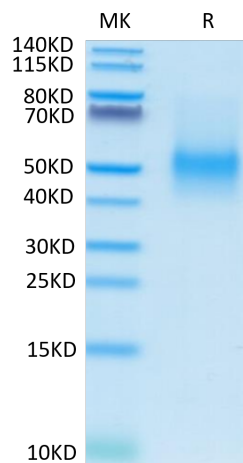
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/ml is recommended (usually we use 1mg/ml solution for lyophilization). Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please avoid 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.

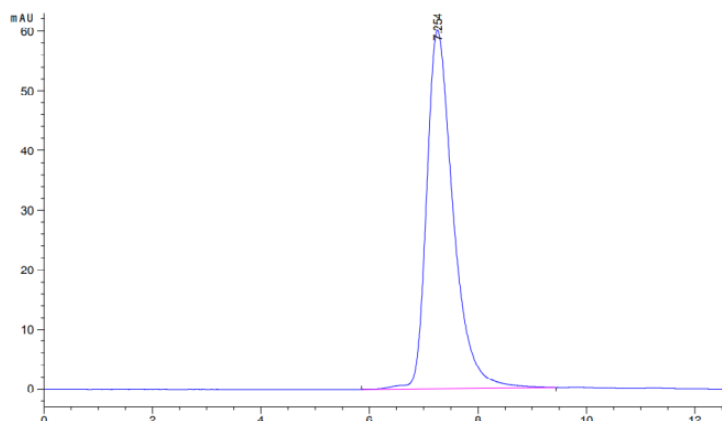
Assay Data

Tris-Bis PAGE



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

SEC-HPLC



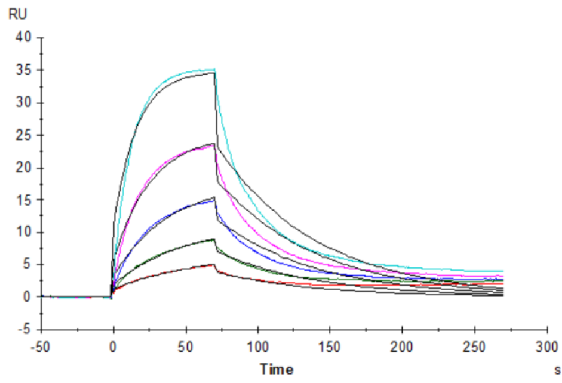
The purity of Mouse PD-L1 is greater than 95% as determined by SEC-HPLC.

SPR Data

Mouse PD-L1/B7-H1 Protein

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Assay Data



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 $0.15\mu\text{M}$ as determined in SPR assay (Biacore T200).