

Rev04
 Update: Sep,15,2025

DATASHEET

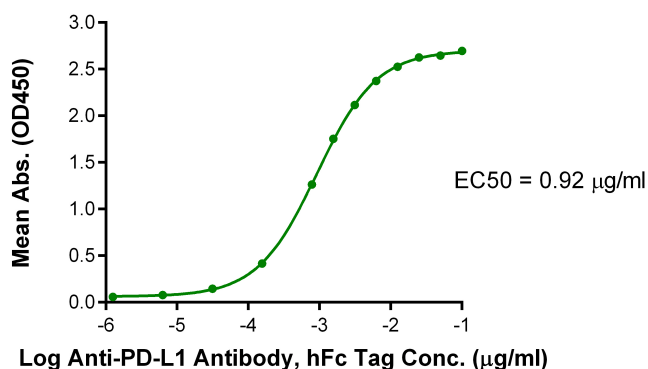
PD-L1/B7-H1, His, Human

Cat. No.: Z05744

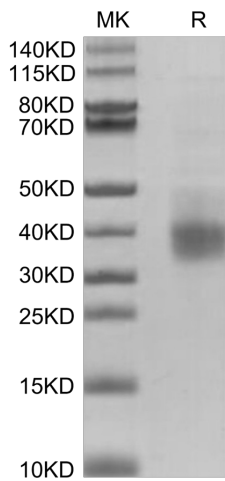
Product Introduction

Species	Human
Protein Construction	<div style="display: flex; align-items: center; gap: 10px;"> <div style="background-color: #0056b3; color: white; padding: 5px; border-radius: 3px;"> PD-L1/B7-H1 (Phe19-Arg238) Accession # Q9NZQ7-1 </div> <div style="background-color: #76923c; color: white; padding: 5px; border-radius: 3px;"> His </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px; font-size: 0.8em;"> N-term C-term </div>
Purity	> 95% as determined by BisTris PAGE
Endotoxin Level	Less than 1EU per µg by the LAL method.
Biological Activity	Measured by its binding ability in a functional ELISA. Test result was comparable to standard batch.
Expression System	HEK293
Theoretical Molecular Weight	26 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 35-42 kDa based on Bis-Tris PAGE result.
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4).
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 & Stability	Upon receiving, the product remains stable for 6 months at -20°C or below. Upon reconstitution, the product should be stable for 3 months at -80°C. Avoid repeated freeze-thaw cycles.

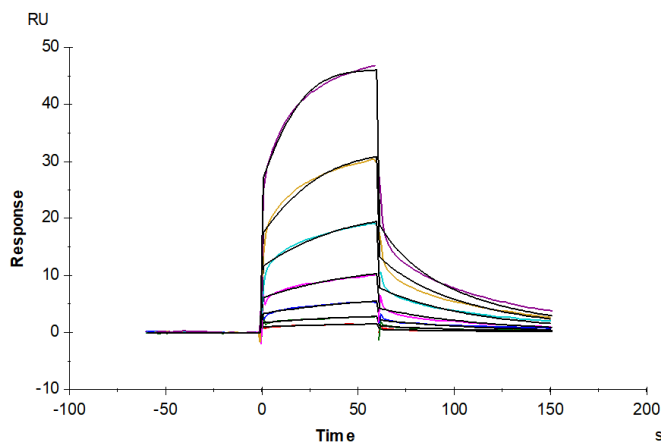
Examples



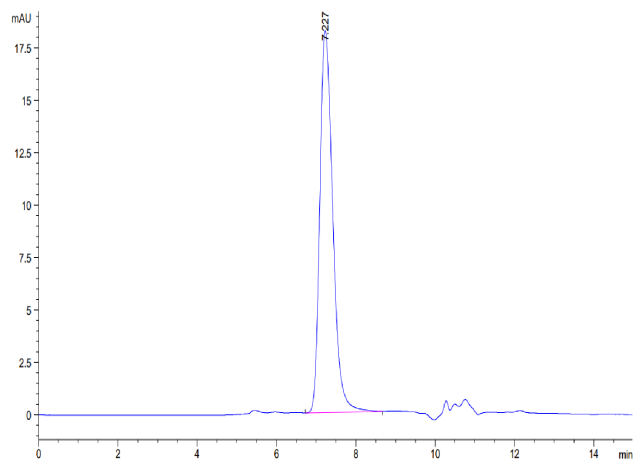
Immobilized PD-L1/B7-H1, His, Human, His Tag at 1 µg/ml (100 µl/well) on the plate. Dose response curve for Anti-PD-L1 Antibody, hFc Tag with the EC50 of 0.92ng/ml determined by ELISA.



PD-L1/B7-H1, His, Human on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.



PD-L1/B7-H1, His, Human, hFc Tag captured on CM5 Chip via Protein A can bind Human PD-L1, His Tag with an affinity constant of $0.25 \mu\text{M}$ as determined in SPR assay (Biacore T200).



The purity of PD-L1/B7-H1, His, Human is greater than 95% as determined by SEC-HPLC.

Background

Target 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.

Synonyms : CD274; PDL1; PD-L1; PD-L1B7 homolog 1; B7-H; B7H1; B7-H1; PDCD1L1; PDCD1LG1

For research use only. Not intended for human or animal clinical trials, therapeutic or diagnostic use.

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