Rev04
Update: Sep,19,2025

DATASHEET

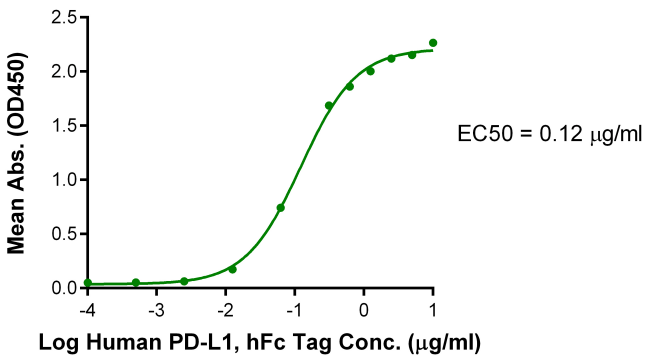
PD-L1/B7-H1 hFc Chimera, Human

Cat. No.: Z05742

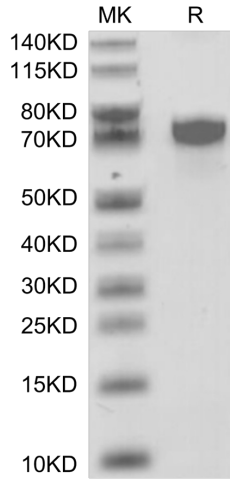
Product Introduction

Species	Human
Protein Construction	PD-L1/B7-H1 (Phe19-Arg238)_x000D_ Accession # Q9NZQ7-1 — hFc N-term — C-term
Purity	> 95% as determined by BisTris PAGE
Endotoxin Level	Less than 1 EU 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	52 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 68-80 kDa based on Bis-Tris PAGE result.
Formulation	Lyophilized from 0.22 μm 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.

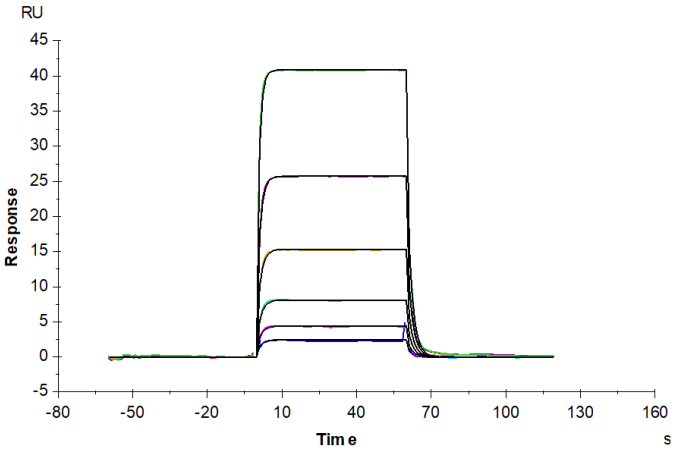
Examples



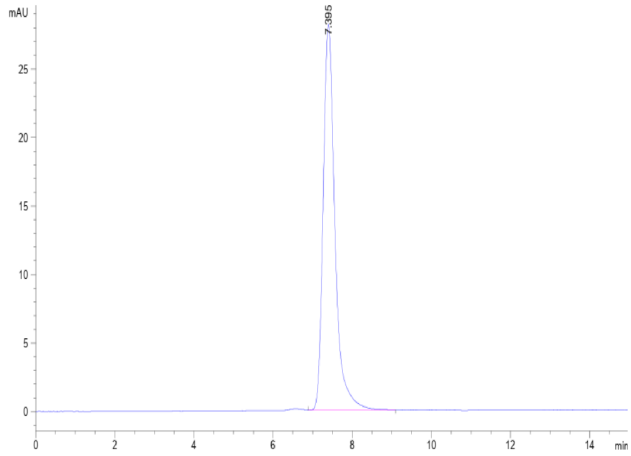
Immobilized PD-L1/B7-H1 hFc Chimera, Human, mFc Tag at 2 μg/ml (100 μl/well) on the plate. Dose response curve for Human PD-L1, hFc Tag with the EC50 of 0.12 μg/ml determined by ELISA.



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



PD-L1/B7-H1 hFc Chimera, Human, hFc Tag captured on CM5 Chip via Protein A can bind Human PD-1, His Tag with an affinity constant of 2.20 μM as determined in SPR assay (Biacore T200).



The purity of PD-L1/B7-H1 hFc Chimera, 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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