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# Data Sheet

## *PD-L1 (CD274), Fc fusion, Biotin-labeled*

Human, recombinant, Fc fusion protein with C-terminal Avi-tag™
**Catalog #:** 71105
**Lot #:** 150623-G1 **Conc.:** 0.79 mg/ml

**Formulated in:** 8 mM phosphate, pH 7.4, 110 mM NaCl, 2.2 mM KCl, and 20% glycerol

**Stability:** At least 6 months at –80°C. *Avoid freeze/thaw cycles. Protein may be diluted to ≥ 100 µg/ml in PBS + glycerol and stored at -80°C.*

**References:**

1. Freeman, G.J., *et al., J Exp Med.* 2000 Oct 2;**192(7)**:1027-34.
2. Dong, H., *et al., Nat Med.* 1999 Dec;**5(12)**:1365-9.

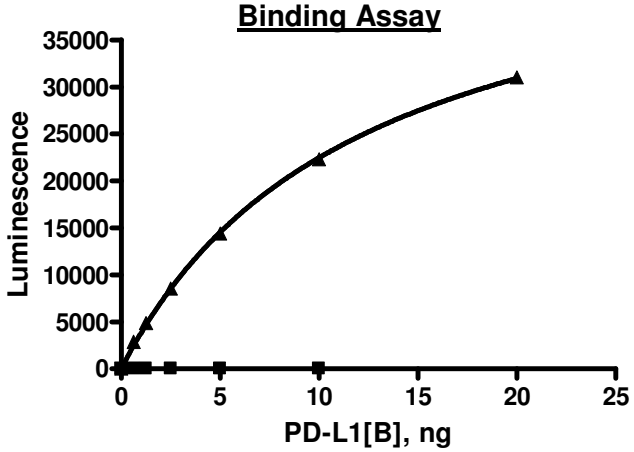
**Description:** Human secreted Programmed Cell Death 1 Ligand 1 (PD-L1)-Fc fusion protein, also known as CD274 and B7 homolog 1 (B7-H1), GenBank Accession No. NM_014143, amino acids 19-239, fused at the C-terminus with the Fc portion of human IgG1, with C-terminal Avi-tag™ expressed in a HEK293 cell expression system and enzymatically biotin-labeled using Avi-tag™ technology. MW = 54 kDa.

**Assay Conditions:** PD-1-PD-L1 binding activity, measured using using the PD-1:PD-L1[Biotinylated] Inhibitor Screening Assay Kit, BPS Bioscience, Catalog #72003.

**Application:**
Useful for the study of protein-protein interaction and *in vitro* and *in vivo* protein function.

## *Quality Assurance*

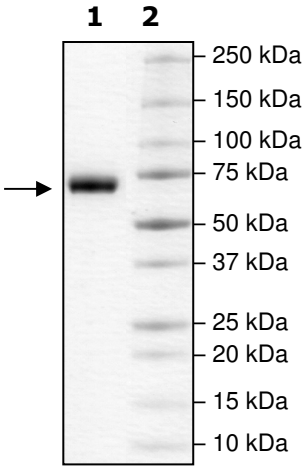
**Binding Assay**




**4-20% SDS-PAGE**
**Coomassie staining**

**Lane 1**:
2 µg PD-L1
**Lane 2**:
Protein Marker

**MW**: 54 kDa+glycans
**Purity**: ≥90%

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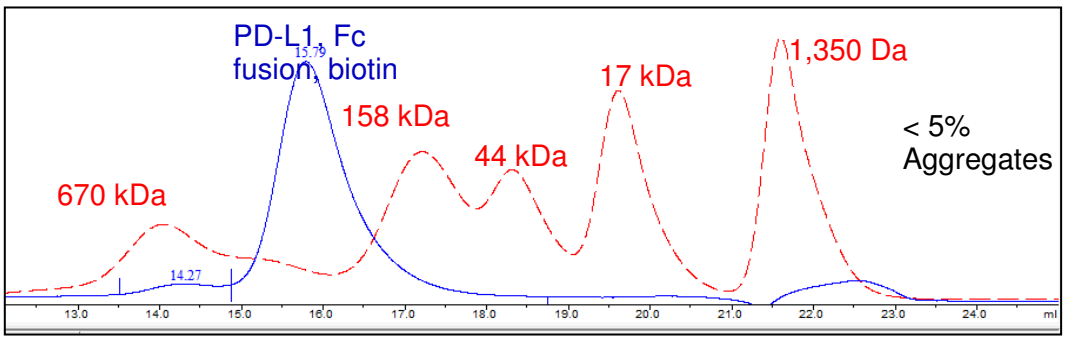
## Gel Filtration Curve




## Sequence:

**FTVTVPKDLYVVEYGSNMTIECKFPVEKQLDLAALIVYWEMEDKNIIQFVHGEEDLKVQ**
**HSSYRQRARLLKDQLSLGNAALQITDVKLQDAGVYRCMISYGGADYKRITVKVNAPY**
**NKINQRILVVDPVTSEHELTCQAEGYPKAEVIWTSSDHQVLSGKTTTTNSKREEKLFN**
**VTSTLRINTTTNEIFYCTFRRLDPEENHTAELVIPELPLAHPPNERT**DIEGRMDPKSCDK
THTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVD
GVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKA
KGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPP
VLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGKGGGLND
IFEAQKIEWHE

Black: PD-L1 (a.a. 19-239)
Green: Linker
Red: Fc of human IgG1 (a.a.100-330)
Blue: Avi-tag™

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