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Data Sheet

PD-1 (PDCD1), Biotin-labeled

Human, recombinant, Fc fusion protein with C-terminal Avi-tag™
Catalog #: 71109
Lot #: 150121-B **Conc.:** 3.72 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. Shinohara, T., *et al., Genomics.* 1994 Oct;**23(3)**:704-6.
2. James, E.S., *et al., Genes Immun.* 2005 Aug;**6(5)**:430-7.

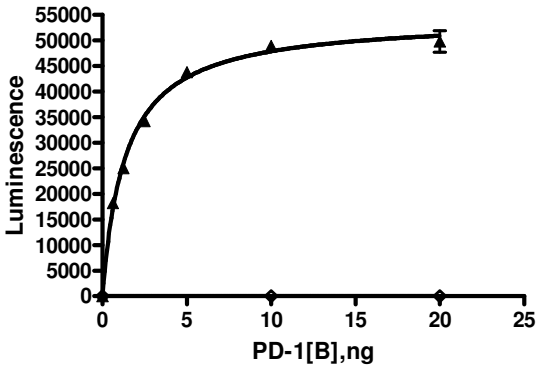
Description:
Human secreted programmed cell death 1 (PD-1)-Fc fusion protein, also known as, PDCD1, SLEB2, CD279 and HPD-L, GenBank Accession No. NM_005018, a.a 25-167, fused at the C-terminus to the Fc portion of human IgG1, with C-terminal Avi-tag™ expressed in a HEK293 cell expression system and enzymatically biotin-labeled using Avi-tag™ technology. MW = 44.5 kDa. This protein runs at a higher M.W. by SDS-PAGE due to glycosylation.

Assay Description: BPS Cat. 72005 protocol was followed. Briefly, 50 µl of 2 µg/ml PD-L1 was coated onto plates. 20 µl of 0.5 µg/ml PD-1, Biotin-labeled was allowed to bind at room temp. for 2 hours. Strep-HRP was added and allowed to incubate at room temp for 1 hr, followed by HPR chemiluminescent substrate addition and plate reading.

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

Quality Assurance

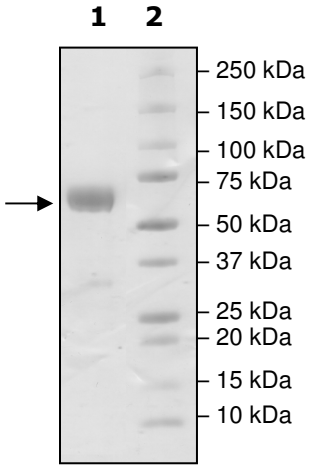
PD-1[B]:PD-L2 Binding Interaction



4-20% SDS-PAGE
Coomassie staining

Lane 1:
4 µg PD-1
Lane 2:
Protein Marker

MW: 44.5kDa
Purity: ≥90%



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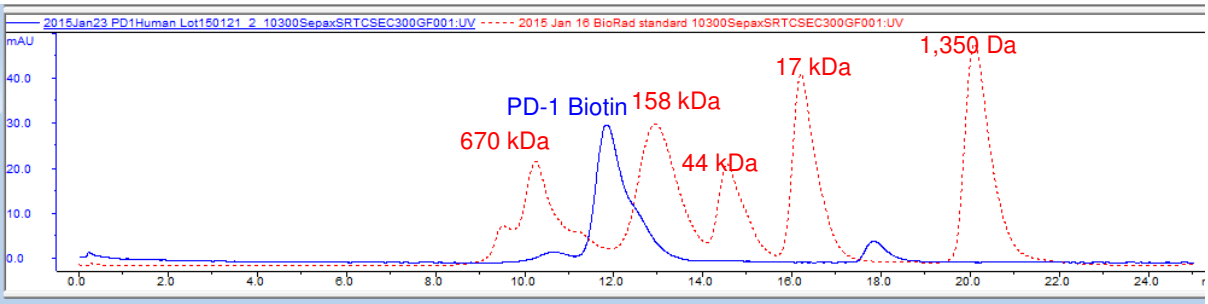
Gel Filtration Curve:



Sequence:

LDSPDRPWNPPTFSPALLVVTEGDNATFTCSFSNTSESFVLNWYRMSPSNQTDKLAA FPEDRSQPGQDCRFRVTQLPNGRDFHMSVVRARRNDSGTYLCGAISLAPKAQIKESL RAELRVTERRAEVPTAHPSPSPRPAGQFQIEGRMDPKSCDKTHTCPPCPAPELLGGP SVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQY NSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSR EEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVD KSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGKGGGLNDIFEAQKIEWHE

Black: PD-1 (a.a. 25-167)
Green: Linker
Red: Fc of human IgG1 (a.a. 100-330)
Blue: Avi-tag™

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