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Data Sheet

PD-1 (CD279), Fc Fusion

Human, recombinant, Fc fusion protein
Catalog #: 71106
Lot #: 131113-D **Conc.:** 1.84 mg/ml

Formulated in: 40 mM Tris-HCl, pH 8.0, 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:

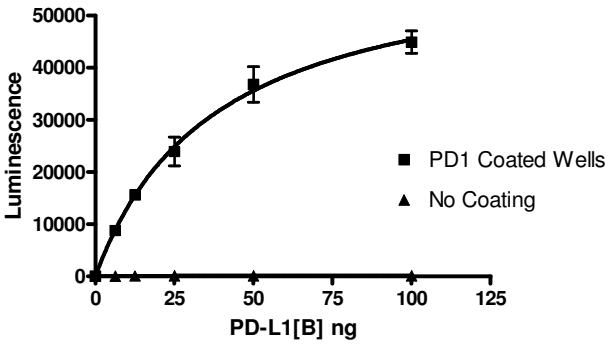
1. Shinohara, T., *et al., Genomics.* 1994 Oct;**23(3)**:704-6.
2. James, E.S., *et al., Genes Immun.* 2005 Aug;**6(5)**:430-7.

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, expressed in a HEK293 cell expression system. MW = 42.6 kDa. This protein runs at a higher M.W. by SDS-PAGE due to glycosylation.

Assay Conditions:
PD-1-PD-L1 binding activity, measured using the 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.

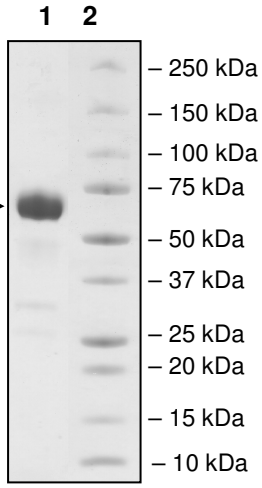
Quality Assurance



4-20% SDS-PAGE
Coomassie staining

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

MW: 42.6 kDa + glycans
Purity: ≥90%



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Sequence:

LDSPDRPWNPPTFSPALLVVTEGDNATFTCSFSNTSESFVLNWYRMSPSNQTDKLAA
FPEDRSQPGQDCRFRVTQLPNGRDFHMSVVRARRNDSGTYLCGAISLAPKAQIKESL
RAELRVTERRAEVPTAHPSPSPRPAGQFQIEGRMDPKSCDKTHTCPPCPAPELLGGP
SVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYVDGVEVHNAKTKPREEQY
NSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALPAPIEKTISKAKGQPREPQVYTLPPSR
EEMTKNQVSLTCLVKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFLYSKLTVD
KSRWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

Black: PD-1 (a.a. 25-167)
Green: linker
Red: Fc of human IgG1 (a.a. 100-330)

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