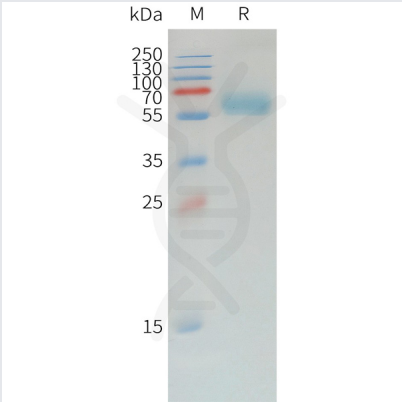
PD-1 Canine Recombinant Protein

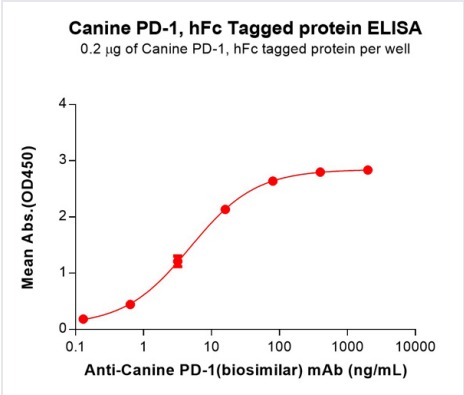
PRODUCT OVERVIEW

Product Name	PD-1, Recombinant Protein
Full Product Name	Canine PD-1 Protein, hFc Tag
Product Gene Name	PD-1 recombinant protein
Product Synonym Names	CD279; PD-1; PD1; SLEB2; hPD-1; hPD-l; hSLE1; Recombinant Canine PD-1 protein with C-terminal human Fc tag
Sequence	PD-1 (Leu25-Gly 168) hFc (Glu99-Ala 330)
Host	HEK293
Form/Format	Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Purity/Purification	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Preparation and Storage	Store at -20 degree C to -80 degree C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80 degree C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Molecular Weight	The protein has a predicted molecular mass of 42.3kDa after removal of the signal peptide. The apparent molecular mass of dPD-1-hFc is approximately 55-70kDa due to glycosylation.
Tag	C-Human Fc
Product Categories/Family for PD-1 recombinant protein	ECD Proteins
Related Product Information for PD-1 recombinant protein	Programmed cell death protein 1 (PDCD1) is an immune-inhibitory receptor expressed in activated T cells; it is involved in the regulation of T-cell functions, including those of effector CD8+ T cells. In addition, this protein can also promote the differentiation of CD4+ T cells into T regulatory cells. PDCD1 is expressed in many types of tumors including melanomas, and has demonstrated to play a role in anti-tumor immunity. Moreover, this protein has been shown to be involved in safeguarding against autoimmunity, however, it can also contribute to the inhibition of effective anti-tumor and anti-microbial immunity. [provided by RefSeq, Aug 2020]
Other Notes	Small volumes of PD-1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for PD-1 purchase	MBS1884204 is a recombinant protein targeting PD-1. Also known as Canine PD-1 Protein, hFc Tag. Host: HEK293.



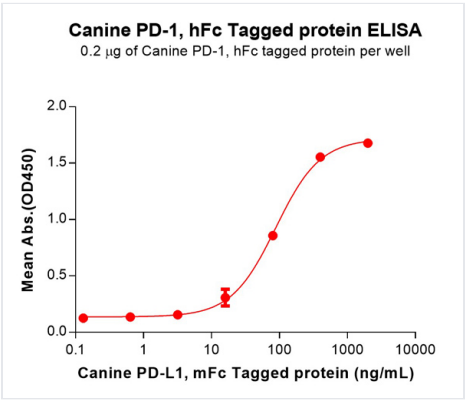
SDS-PAGE of PD-1 recombinant protein

Figure 1. Canine PD-1 Protein, hFc Tag on SDS-PAGE under reducing condition.



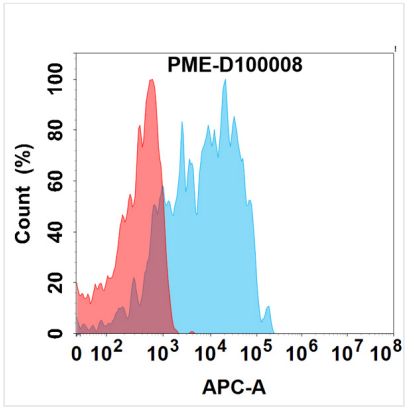
ELISA (EIA) of PD-1 recombinant protein

Figure 2. ELISA plate pre-coated by 2 ug/mL (100 uL/well) Canine PD-1 Protein, hFc Tag (MBS1884204) can bind Anti-Canine PD-1(INTERVET 4F12) mAb in a linear range of 0.64–80 ng/mL.



ELISA (EIA) of PD-1 recombinant protein

Figure 3. ELISA plate pre-coated by 2 ug/mL (100 uL/well) Canine PD-1 Protein, hFc Tag (MBS1884204) can bind Canine PD-L1 Protein, mFc Tag in a linear range of 16–400 ng/mL.



Flow Cytometry (FCM/FACS) of PD-1 recombinant protein

Figure 4. Flow cytometry analysis with 1ug/mL Canine PD-1 Protein, hFc Tag(MBS1884204) on Expi293 cells transfected with Canine PD-L1 protein (Blue histogram) or Expi293 transfected with irrelevant protein (Red histogram).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PD-1. It may not necessarily be applicable to this product.

NCBI Accession #	NP_001301026.1
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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