



# Certificate of Analysis

## PD-1 Protein, Canine (HEK293, C-His)

Cat. No.:	HY-P73342A
Batch No.:	434654
Species:	Canine
Source:	HEK293
Tag:	C-6*His
Accession:	XP_543338.3 (L25-L169)
Gene ID:	486213
Molecular Weight:	Approximately 31-40 kDa due to the glycosylation.

### ANALYTICAL DATA

TEST	Specifications	Results
Purity	Greater than 95% as determined by reducing SDS-PAGE.	96.00%
Endotoxin Level	<1 EU/μg, determined by LAL method.	PASS
Biological Activity	Measured by its binding ability in a functional ELISA. When Recombinant Canine PD-1 is present at 0.5 μg/mL can bind Recombinant Canine PD-L1. The ED <sub>50</sub> for this effect is 5.43 μg/mL.	5.43 μg/mL
Appearance	Lyophilized powder	
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).	
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.	
Shipping	Room temperature in continental US; may vary elsewhere.	

**Caution: Product has not been fully validated for medical applications. For research use only.**

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