



# Certificate of Analysis

## PD-1 Protein, Human (HEK293, Fc)

Cat. No.:	HY-P73344
Batch No.:	344253
Species:	Human
Source:	HEK293
Tag:	C-hFc
Accession:	Q15116 (L25-Q167)
Gene ID:	5133
Molecular Weight:	55-66 kDa

### ANALYTICAL DATA

TEST	Specifications	Results
Purity	Greater than 95% as determined by reducing SDS-PAGE.	≥98.0%
Endotoxin Level	<1 EU/μg, determined by LAL method.	PASS
Biological Activity	<p>1. Immobilized PD-1 Protein, Human, Recombinant (ECD, hFc Tag) at 2 μg/mL (100 μL/well) can bind PD-L2 Protein, Human, Recombinant (ECD, His Tag), the EC<sub>50</sub> is 45-280ng/mL.</p> <p>2. Immobilized Recombinant Human PD1 / PDCD1 / CD279 Protein (Fc Tag) at 2 μg/mL (100 μL/well) can bind Recombinant Human PD-L1 Protein (Fc &amp; AVI Tag), Biotinylated, the EC<sub>50</sub> is 25-75 ng/mL.</p> <p>3. Labeled biotin to PD-1 Protein, Human, Recombinant (Fc Tag) by a certain molar ratio; Using the Octet RED System, the affinity constant (Kd) of PD-1 Protein, Human, Recombinant (Fc Tag), Biotinylated bound to Atezolizumab was 0.3 nM.</p>	45-280 ng/mL (Test by method 1)
Appearance	Solution	
Concentration	3.81 mg/mL	
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O.	
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.	
Shipping	Shipping with dry ice	

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

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